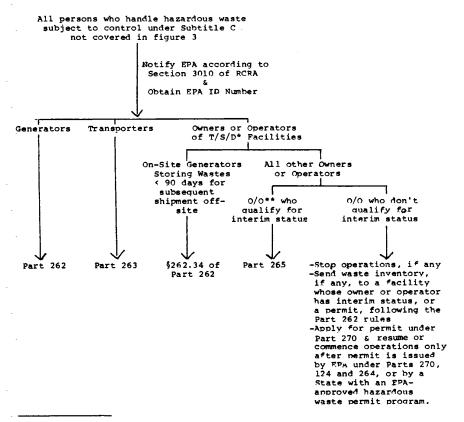
FIGURE 4

REGULATIONS FOR HAZARDOUS WASTE NOT COVERED IN DIAGRAM 3



* T/S/D stands for Treatment, Storage, or Disposal ** O/O stands for Owners or Operators

[45 FR 33073, May 19, 1980, as amended at 48 FR 14293, Apr. 1, 1983]

PART 261—IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

Subpart A—General

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AUTHORITY: 42 U.S.C. 6905, 6912(a), 6921, 6922, and 6938.

Source: 45 FR 33119, May 19, 1980, unless otherwise noted.

Subpart A—General

§261.1 Purpose and scope.

(a) This part identifies those solid wastes which are subject to regulation as hazardous wastes under parts 262 through 265, 268, and parts 270, 271, and 124 of this chapter and which are sub-

ject to the notification requirements of section 3010 of RCRA. In this part:

- (1) Subpart A defines the terms "solid waste" and "hazardous waste", identifies those wastes which are excluded from regulation under parts 262 through 266, 268 and 270 and establishes special management requirements for hazardous waste produced by conditionally exempt small quantity generators and hazardous waste which is recycled.
- (2) Subpart B sets forth the criteria used by EPA to identify characteristics of hazardous waste and to list particular hazardous wastes.
- (3) Subpart C identifies characteristics of hazardous waste.
- (4) Subpart D lists particular hazardous wastes.
- (b)(1) The definition of solid waste contained in this part applies only to wastes that also are hazardous for purposes of the regulations implementing subtitle C of RCRA. For example, it does not apply to materials (such as non-hazardous scrap, paper, textiles, or rubber) that are not otherwise hazardous wastes and that are recycled.
- (2) This part identifies only some of the materials which are solid wastes and hazardous wastes under sections 3007, 3013, and 7003 of RCRA. A material which is not defined as a solid waste in this part, or is not a hazardous waste identified or listed in this part, is still a solid waste and a hazardous waste for purposes of these sections if:
- (i) In the case of sections 3007 and 3013, EPA has reason to believe that the material may be a solid waste within the meaning of section 1004(27) of RCRA and a hazardous waste within the meaning of section 1004(5) of RCRA; or
- (ii) In the case of section 7003, the statutory elements are established.
- (c) For the purposes of §§ 261.2 and 261.6:
- (1) A "spent material" is any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing;
- (2) "Sludge" has the same meaning used in §260.10 of this chapter;
- (3) A "by-product" is a material that is not one of the primary products of a production process and is not solely or

separately produced by the production process. Examples are process residues such as slags or distillation column bottoms. The term does not include a co-product that is produced for the general public's use and is ordinarily used in the form it is produced by the process.

- (4) A material is "reclaimed" if it is processed to recover a usable product, or if it is regenerated. Examples are recovery of lead values from spent batteries and regeneration of spent solvents.
- (5) A material is "used or reused" if it is either:
- (i) Employed as an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as feedstock in another process). However, a material will not satisfy this condition if distinct components of the material are recovered as separate end products (as when metals are recovered from metal-containing secondary materials); or
- (ii) Employed in a particular function or application as an effective substitute for a commercial product (for example, spent pickle liquor used as phosphorous precipitant and sludge conditioner in wastewater treatment).
- (6) "Scrap metal" is bits and pieces of metal parts (e.g.,) bars, turnings, rods, sheets, wire) or metal pieces that may be combined together with bolts or soldering (e.g., radiators, scrap automobiles, railroad box cars), which when worn or superfluous can be recycled.
- (7) A material is "recycled" if it is used, reused, or reclaimed.
- (8) A material is "accumulated speculatively" if it is accumulated before being recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that-during the calendar year (commencing on January 1)-the amount of material that is recycled, or transferred to a different site for recycling, equals at least 75 percent by weight or volume of the amount of that material accumulated at the beginning of the period. In calculating the percentage of turnover, the 75 percent requirement is to be applied to each ma-

terial of the same type (e.g., slags from a single smelting process) that is recycled in the same way (i.e., from which the same material is recovered or that is used in the same way). Materials accumulating in units that would be exempt from regulation under §261.4(c) are not to be included in making the calculation. (Materials that are already defined as solid wastes also are not to be included in making the calculation.) Materials are no longer in this category once they are removed from accumulation for recycling, however.

[45 FR 33119, May 19, 1980, as amended at 48 FR 14293, Apr. 1, 1983; 50 FR 663, Jan. 4, 1985; 51 FR 10174, Mar. 24, 1986; 51 FR 40636, Nov. 7, 1986]

§261.2 Definition of solid waste.

- (a)(1) A *solid waste* is any discarded material that is not excluded by §261.4(a) or that is not excluded by variance granted under §§260.30 and 260.31.
- (2) A *discarded material* is any material which is:
- (i) *Abandoned*, as explained in paragraph (b) of this section; or
- (ii) Recycled, as explained in paragraph (c) of this section; or
- (iii) Considered *inherently waste-like*, as explained in paragraph (d) of this section.
- (b) Materials are solid waste if they are *abandoned* by being:
 - (1) Disposed of; or
 - (2) Burned or incinerated; or
- (3) Accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.
- (c) Materials are solid wastes if they are *recycled*—or accumulated, stored, or treated before recycling—as specified in paragraphs (c)(1) through (4) of this section.
- (1) Used in a manner constituting disposal. (i) Materials noted with a "*" in Column 1 of Table I are solid wastes when they are:
- (A) Applied to or placed on the land in a manner that constitutes disposal;
- (B) Used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in

which cases the product itself remains a solid waste).

- (ii) However, commercial chemical products listed in §261.33 are not solid wastes if they are applied to the land and that is their ordinary manner of use.
- (2) Burning for energy recovery. (i) Materials noted with a "*" in column 2 of Table 1 are solid wastes when they are:
 - (A) Burned to recover energy;
- (B) Used to produce a fuel or are otherwise contained in fuels (in which

cases the fuel itself remains a solid waste).

- (ii) However, commercial chemical products listed in §261.33 are not solid wastes if they are themselves fuels.
- (3) Reclaimed. Materials noted with a "*" in column 3 of Table 1 are solid wastes when reclaimed.
- (4) Accumulated speculatively. Materials noted with a "*" in column 4 of Table 1 are solid wastes when accumulated speculatively.

TABLE 1

	Use constitut- ing disposal (§ 261.2(c)(1))	Energy recovery/fuel (§ 261.2(c)(2))	Reclamation (§ 261.2(c)(3))	Speculative accumulation (§ 261.2(c)(4))
	(1)	(2)	(3)	(4)
Spent Materials Sludges (listed in 40 CFR part 261.31 or 261.32) Sludges exhibiting a characteristic of hazardous waste By-products (listed in 40 CFR part 261.31 or 261.32) By-products exhibiting a characteristic of hazardous waste Commercial chemical products listed in 40 CFR 261.33 Scrap metal	(*) (*) (*) (*) (*) (*) (*) (*)	(*) (*) (*) (*) (*) (*) (*) (*)	(*) (*) (*)	(*) (*) (*) (*) (*) (*)

Note: The terms "spent materials," "sludges," "by-products," and "scrap metal" are defined in § 261.1.

- (d) *Inherently waste-like materials*. The following materials are solid wastes when they are recycled in any manner:
- (1) Hazardous Waste Nos. F020, F021 (unless used as an ingredient to make a product at the site of generation), F022, F023, F026, and F028.
- (2) Secondary materials fed to a halogen acid furnace that exhibit a characteristic of a hazardous waste or are listed as a hazardous waste as defined in subparts C or D of this part, except for brominated material that meets the following criteria:
- (i) The material must contain a bromine concentration of at least 45%; and
- (ii) The material must contain less than a total of 1% of toxic organic compounds listed in appendix VIII; and
- (iii) The material is processed continually on-site in the halogen acid furnace via direct conveyance (hard piping).
- (3) The Administrator will use the following criteria to add wastes to that list:
- (i)(A) The materials are ordinarily disposed of, burned, or incinerated; or
- (B) The materials contain toxic constituents listed in appendix VIII of part

- 261 and these constituents are not ordinarily found in raw materials or products for which the materials substitute (or are found in raw materials or products in smaller concentrations) and are not used or reused during the recycling process; and
- (ii) The material may pose a substantial hazard to human health and the environment when recycled.
- (e) Materials that are not solid waste when recycled. (1) Materials are not solid wastes when they can be shown to be recycled by being:
- (i) Used or reused as ingredients in an industrial process to make a product, provided the materials are not being reclaimed; or
- (ii) Used or reused as effective substitutes for commercial products; or
- (iii) Returned to the original process from which they are generated, without first being reclaimed or land disposed. The material must be returned as a substitute for feedstock materials. In cases where the original process to which the material is returned is a secondary process, the materials must be managed such that there is no placement on the land.

- (2) The following materials are solid wastes, even if the recycling involves use, reuse, or return to the original process (described in paragraphs (e)(1) (i) through (iii) of this section):
- (i) Materials used in a manner constituting disposal, or used to produce products that are applied to the land; or
- (ii) Materials burned for energy recovery, used to produce a fuel, or contained in fuels; or
- (iii) Materials accumulated speculatively; or
- (iv) Materials listed in paragraphs (d)(1) and (d)(2) of this section.
- (f) Documentation of claims that materials are not solid wastes or are conditionally exempt from regulation. Respondents in actions to enforce regulations implementing subtitle C of RCRA who raise a claim that a certain material is not a solid waste, or is conditionally exempt from regulation, must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waste, or is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so.

[50 FR 664, Jan. 4, 1985, as amended at 50 FR 33542, Aug. 20, 1985; 56 FR 7206, Feb. 21, 1991; 56 FR 32688, July 17, 1991; 56 FR 42512, Aug. 27, 1991; 57 FR 38564, Aug. 25, 1992; 59 FR 48042, Sept. 19, 1994]

§261.3 Definition of hazardous waste.

- (a) A solid waste, as defined in §261.2, is a hazardous waste if:
- (1) It is not excluded from regulation as a hazardous waste under $\S 261.4(b)$; and
- (2) It meets any of the following criteria:
- (i) It exhibits any of the characteristics of hazardous waste identified in subpart C except that any mixture of a waste from the extraction, beneficiation, and processing of ores and minerals excluded under §261.4(b)(7) and any other solid waste

exhibiting a characteristic of hazardous waste under subpart C of this part only if it exhibits a characteristic that would not have been exhibited by the excluded waste alone if such mixture had not occurred or if it continues to exhibit any of the characteristics exhibited by the non-excluded wastes prior to mixture. Further, for the purposes of applying the Toxicity Characteristic to such mixtures, the mixture is also a hazardous waste if it exceeds the maximum concentration for any contaminant listed in table I to §261.24 that would not have been exceeded by the excluded waste alone if the mixture had not occurred or if it continues to exceed the maximum concentration for any contaminant exceeded by the nonexempt waste prior to mixture.

(ii) It is listed in subpart D of this part and has not been excluded from the lists in subpart D of this part under §§ 260.20 and 260.22 of this chapter.

(iii) It is a mixture of a solid waste and a hazardous waste that is listed in subpart D of this part solely because it exhibits one or more of the characteristics of hazardous waste identified in subpart C of this part, unless the resultant mixture no longer exhibits any characteristic of hazardous waste identified in subpart C of this part, or unless the solid waste is excluded from regulation under §261.4(b)(7) and the resultant mixture no longer exhibits any characteristic of hazardous waste identified in subpart C of this part for which the hazardous waste listed in subpart D of this part was listed. (However, nonwastewater mixtures are still subject to the requirements of part 268 of this chapter, even if they no longer exhibit a characteristic at the point of land disposal).

(iv) It is a mixture of solid waste and one or more hazardous wastes listed in subpart D of this part and has not been excluded from paragraph (a)(2) of this section under §§ 260.20 and 260.22 of this chapter; however, the following mixtures of solid wastes and hazardous wastes listed in subpart D of this part are not hazardous wastes (except by application of paragraph (a)(2) (i) or (ii) of this section) if the generator can demonstrate that the mixture consists of wastewater the discharge of which is

subject to regulation under either section 402 or section 307(b) of the Clean Water Act (including wastewater at facilities which have eliminated the discharge of wastewater) and:

(A) One or more of the following solvents listed in §261.31—carbon tetrachloride, tetrachloroethylene, trichloroethylene—*Provided*, That the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 1 part per million; or

(B) One or more of the following spent solvents listed in §261.31-methylene chloride, 1,1,1-trichloroethane, chlorobenzene, o-dichlorobenzene, cresols, cresylic acid, nitrobenzene, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, spent chlorofluorocarbon solvents-provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 25 parts per million; or

(C) One of the following wastes listed in §261.32—heat exchanger bundle cleaning sludge from the petroleum refining industry (EPA Hazardous Waste No. K050); or

(D) A discarded commercial chemical product, or chemical intermediate listed in §261.33, arising from *de minimis* losses of these materials from manufacturing operations in which these materials are used as raw materials or are produced in the manufacturing process. For purposes of this paragraph (a)(2)(iv)(D), "de minimis" losses include those from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves or other devices used to transfer materials); minor leaks of process equipment, storage tanks or containers; leaks from well maintained pump packings and seals; sample purgings; relief device discharges; discharges

from safety showers and rinsing and cleaning of personal safety equipment; and rinstate from empty containers or from containers that are rendered empty by that rinsing; or

(E) Wastewater resulting from laboratory operations containing toxic (T) wastes listed in subpart D of this part, Provided, That the annualized average flow of laboratory wastewater does not exceed one percent of total wastewater flow into the headworks of the facility's wastewater treatment or pretreatment system or provided the wastes, combined annualized average concentration does not exceed one part per million in the headworks of the facility's wastewater treatment or pretreatment facility. Toxic (T) wastes used in laboratories that are demonstrated not to be discharged to wastewater are not to be included in this calculation; or

(F) One or more of the following wastes listed in §261.32—wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157)—Provided that the maximum weekly usage of formaldehyde, methyl chloride, methylene chloride, and triethylamine (including all amounts that can not be demonstrated to be reacted in the process, destroyed through treatment, or is recovered, i.e., what is discharged or volatilized) divided by the average weekly flow of process wastewater prior to any dilutions into the headworks of the facility's wastewater treatment system does not exceed a total of 5 parts per million by weight; or

(G) Wastewaters derived from the treatment of one or more of the following wastes listed in §261.32—organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156).—Provided, that the maximum concentration of formaldehyde, methyl chloride, methylene chloride, and triethylamine prior to any dilutions into the headworks of the facility's wastewater treatment system does not exceed a total of 5 milligrams per liter.

(v) Rebuttable presumption for used oil. Used oil containing more than 1000 ppm

total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in subpart D of part 261 of this chapter. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, Third Edition, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix VIII of part 261 of this chapter). EPA Publication SW-846, Third Edition, is available for the cost of \$110.00 from the Government Printing Office, Superintendent of Documents, PO Box 371954, Pittsburgh, PA 15250-7954. 202-512-1800 (document number 955-001-00000-1

- (A) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling agreement, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed.
- (B) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.
- (b) A solid waste which is not excluded from regulation under paragraph (a)(1) of this section becomes a hazardous waste when any of the following events occur:
- (1) In the case of a waste listed in subpart D of this part, when the waste first meets the listing description set forth in subpart D of this part.
- (2) In the case of a mixture of solid waste and one or more listed hazardous wastes, when a hazardous waste listed in subpart D is first added to the solid waste.
- (3) In the case of any other waste (including a waste mixture), when the waste exhibits any of the characteristics identified in subpart C of this part.
- (c) Unless and until it meets the criteria of paragraph (d) of this section:

- (1) A hazardous waste will remain a hazardous waste.
- (2)(i) Except as otherwise provided in paragraph (c)(2)(ii) of this section, any solid waste generated from the treatment, storage, or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust, or leachate (but not including precipitation run-off) is a hazardous waste. (However, materials that are reclaimed from solid wastes and that are used beneficially are not solid wastes and hence are not hazardous wastes under this provision unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.)
- (ii) The following solid wastes are not hazardous even though they are generated from the treatment, storage, or disposal of a hazardous waste, unless they exhibit one or more of the characteristics of hazardous waste:
- (A) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC Codes 331 and 332).
- (B) Waste from burning any of the materials exempted from regulation by §261.6(a)(3)(iv) through (vi).
- (C)(1) Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of K061, K062 or F006 waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces (as defined in paragraphs (6), (7), and (13) of the definition for "Industrial furnace" in 40 CFR 260.10), that are disposed in subtitle D units, provided that these residues meet the generic exclusion levels identified in the tables in this paragraph for all constituents, and exhibit no characteristics of hazardous waste. Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed quarterly and/or when the process or operation generating the waste changes. Persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that

§ 261.3

the material meets all of the exclusion requirements.

	Manager (
Constituent	Maximum for any single composite sample—TCLP (mg/l)

Generic exclusion levels for K061 and K062 nonwastewater HTMR residues

Antimony	0.10
Arsenic	0.50
Barium	7.6
Beryllium	0.010
Cadmium	0.050
Chromium (total)	0.33
Lead	0.15
Mercury	0.009
Nickel	1.0
Selenium	0.16
Silver	0.30
Thallium	0.020
Zinc	70

Generic exclusion levels for F006 nonwastewater HTMR residues

Antimony	0.10
Arsenic	0.50
Barium	7.6
Beryllium	0.010
Cadmium	0.050
Chromium (total)	0.33
Cyanide (total) (mg/kg)	1.8
Lead	0.15
Mercury	0.009
Nickel	1.0
Selenium	0.16
Silver	0.30
Thallium	0.020
Zinc	70

(2) A one-time notification and certification must be placed in the facility's files and sent to the EPA region or authorized state for K061, K062 or F006 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics that are sent to subtitle D units. The notification and certification that is placed in the generators or treaters files must be updated if the process or generating operation changes and/or if the subtitle D unit receiving the waste changes. However, the generator or treater need only notify the EPA region or an authorized state on an annual basis if such changes occur. Such notification and certification should be sent to the EPA region or authorized state by the end of the calendar year, but no later than December 31. The notification must include the following information: The name and address of the subtitle D unit receiving the waste shipments; the

EPA Hazardous Waste Number(s) and treatability group(s) at the initial point of generation; and, the treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows: "I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(D) Biological treatment sludge from the treatment of one of the following wastes listed in §261.32—organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156), and wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157).

(d) Any solid waste described in paragraph (c) of this section is not a hazardous waste if it meets the following criteria:

(1) In the case of any solid waste, it does not exhibit any of the characteristics of hazardous waste identified in subpart C of this part. (However, wastes that exhibit a characteristic at the point of generation may still be subject to the requirements of part 268, even if they no longer exhibit a characteristic at the point of land disposal.)

(2) In the case of a waste which is a listed waste under subpart D of this part, contains a waste listed under subpart D of this part or is derived from a waste listed in subpart D of this part, it also has been excluded from paragraph (c) of this section under §§ 260.20 and 260.22 of this chapter.

(e) [Reserved]

- (f) Notwithstanding paragraphs (a) through (d) of this section and provided the debris as defined in part 268 of this chapter does not exhibit a characteristic identified at subpart C of this part the following materials are not subject to regulation under 40 CFR parts 260, 261 to 266, 268, or 270:
- (1) Hazardous debris as defined in part 268 of this chapter that has been

treated using one of the required extraction or destruction technologies specified in Table 1 of §268.45 of this chapter; persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements; or

(2) Debris as defined in part 268 of this chapter that the Regional Administrator, considering the extent of contamination, has determined is no longer contaminated with hazardous waste.

[57 FR 7632, Mar. 3, 1992; 57 FR 23063, June 1, 1992, as amended at 57 FR 37263, Aug. 18, 1992; 57 FR 41611, Sept. 10, 1992; 57 FR 49279, Oct. 30, 1992; 59 FR 38545, July 28, 1994; 60 FR 7848, Feb. 9, 1995]

§261.4 Exclusions.

- (a) *Materials which are not solid wastes.* The following materials are not solid wastes for the purpose of this part:
 - (1)(i) Domestic sewage; and
- (ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly-owned treatment works for treatment. "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.
- (2) Industrial wastewater discharges that are point source discharges subject to regulation under section 402 of the Clean Water Act, as amended.

[Comment: This exclusion applies only to the actual point source discharge. It does not exclude industrial wastewaters while they are being collected, stored or treated before discharge, nor does it exclude sludges that are generated by industrial wastewater treatment.]

- (3) Irrigation return flows.
- (4) Source, special nuclear or byproduct material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 *et seq.*
- (5) Materials subjected to in-situ mining techniques which are not removed from the ground as part of the extraction process.
- (6) Pulping liquors (*i.e.*, black liquor) that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless it is accu-

mulated speculatively as defined in $\S 261.1(c)$ of this chapter.

- (7) Spent sulfuric acid used to produce virgin sulfuric acid, unless it is accumulated speculatively as defined in §261.1(c) of this chapter.
- (8) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:
- (i) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;
- (ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators):
- (iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and
- (iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal.
- (9)(i) Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose: and
- (ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.
- (10) EPA Hazardous Waste Nos. K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are hazardous only because they exhibit the Toxicity Characteristic (TC) specified in section 261.24 of this part when, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point they are generated to the point they are recycled to coke ovens or tar recovery or refining processes, or mixed with coal tar.
- (11) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in

drums (if shipped) and not land disposed before recovery.

- (12) Recovered oil from petroleum refining, exploration and production, and from transportation incident thereto, which is to be inserted into the petroleum refining process (SIC Code 2911) at or before a point (other than direct insertion into a coker) where contaminants are removed. This exclusion applies to recovered oil stored or transported prior to insertion, except that the oil must not be stored in a manner involving placement on the land, and must not be accumulated speculatively, before being so recycled. Recovered oil is oil that has been reclaimed from secondary materials (such as wastewater) generated from normal petroleum refining, exploration and production, and transportation practices. Recovered oil includes oil that is recovered from refinery wastewater collection and treatment systems, oil recovered from oil and gas drilling operations, and oil recovered from wastes removed from crude oil storage tanks. Recovered oil does not include (among other things) oil-bearing hazardous waste listed in 40 CFR part 261 D (e.g., K048-K052, F037, F038). However, oil recovered from such wastes may be considered recovered oil. Recovered oil also does not include used oil as defined in 40 CFR 279.1.
- (b) Solid wastes which are not hazardous wastes. The following solid wastes are not hazardous wastes:
- (1) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered (e.g., refuse-derived fuel) or reused. "Household waste" means any material (including garbage, trash and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds and day-use recreation areas). A resource recovery facility managing municipal solid waste shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for the purposes of regulation under this subtitle, if such facil-
 - (i) Receives and burns only

- (A) Household waste (from single and multiple dwellings, hotels, motels, and other residential sources) and
- (B) Solid waste from commercial or industrial sources that does not contain hazardous waste; and
- (ii) Such facility does not accept hazardous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous wastes are not received at or burned in such facility.
- (2) Solid wastes generated by any of the following and which are returned to the soils as fertilizers:
- (i) The growing and harvesting of agricultural crops.
- (ii) The raising of animals, including animal manures.
- (3) Mining overburden returned to the mine site.
- (4) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste, generated primarily from the combusion of coal or other fossil fuels, except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste.
- (5) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geothermal energy.
- (6)(i) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in subpart D due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:
- (A) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and
- (B) The waste is generated from an industrial process which uses trivalent chromium exlcusively (or nearly exclusively) and the process does not generate hexavalent chromium; and
- (C) The waste is typically and frequently managed in non-oxidizing environments.

(ii) Specific waste which meet the standard in paragraphs (b)(6)(i) (A), (B), and (C) (so long as they do not fail the test for the toxicity characteristic for any other constituent, and do not exhibit any other characteristic) are:

(A) Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(B) Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(C) Buffing dust generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.

(D) Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/crome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(E) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

(F) Wastewater treatment sludes generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrometan/retan/wet finish; and through-the-blue.

(G) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.

(H) Wastewater treatment sludges from the production of TiO_2 pigment using chromium-bearing ores by the chloride process.

(7) Solid waste from the extraction, beneficiation, and processing of ores

and minerals (including coal, phosphate rock and overburden from the mining of uranium ore), except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste. For purposes of §261.4(b)(7), beneficiation of ores and minerals is restricted to the following activities: Crushing; grinding; washing; dissolution; crystallization; filtration; sortsizing; drying; sintering: pelletizing; briquetting; calcining to remove water and/or carbon dioxide; roasting, autoclaving, chlorination in preparation for leaching (except where the roasting (and/or autoclaving and/or chlorination)/leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing); gravity concentration; magnetic separation; electrostatic separation; flotation; ion exchange; solvent extraction; electrowinning; precipitation; amalgamation; and heap, dump, vat, tank, and in situ leaching. For the purpose of §261.4(b)(7), solid waste from the processing of ores and minerals includes only the following wastes:

- (i) Slag from primary copper processing;
- (ii) Slag from primary lead processing;
- (iii) Red and brown muds from bauxite refining;
- (iv) Phosphogypsum from phosphoric acid production;
- (v) Slag from elemental phosphorus production;
- (vi) Gasifier ash from coal gasification;
- (vii) Process wastewater from coal gasification;
- (viii) Calcium sulfate wastewater treatment plant sludge from primary copper processing;
- (ix) Slag tailings from primary copper processing;
- (x) Fluorogypsum from hydrofluoric acid production;
- (xi) Process wastewater from hydrofluoric acid production;
- (xii) Air pollution control dust/sludge from iron blast furnaces;
 - (xiii) Iron blast furnace slag;
- (xiv) Treated residue from roasting/leaching of chrome ore;

(xv) Process wastewater from primary magnesium processing by the anhydrous process;

(xvi) Process wastewater from phos-

phoric acid production;

(xvii) Basic oxygen furnace and open hearth furnace air pollution control dust/sludge from carbon steel production:

(xviii) Basic oxygen furnace and open hearth furnace slag from carbon steel production;

(xix) Chloride process waste solids from titanium tetrachloride production:

(xx) Slag from primary zinc processing.

- (8) Cement kiln dust waste, except as provided by §266.112 of this chapter for facilities that burn or process hazardous waste.
- (9) Solid waste which consists of discarded arsenical-treated wood or wood products which fails the test for the Toxicity Characteristic for Hazardous Waste Codes D004 through D017 and which is not a hazardous waste for any other reason if the waste is generated by persons who utilize the arsenical-treated wood and wood product for these materials' intended end use.
- (10) Petroleum-contaminated media and debris that fail the test for the Toxicity Characteristic of §261.24 (Hazardous Waste Codes D018 through D043 only) and are subject to the corrective action regulations under part 280 of this chapter.

(11) Injected groundwater that is hazardous only because it exhibits the Toxicity Characteristic (Hazardous Waste Codes D018 through D043 only) in §261.24 of this part that is reinjected through an underground injection well pursuant to free phase hydrocarbon recovery operations undertaken at petroleum refineries, petroleum marketing terminals, petroleum bulk plants, petroleum pipelines, and petroleum transportation spill sites until January 25, 1993. This extension applies to recovery operations in existence, or for which contracts have been issued, on or before March 25, 1991. For groundwater returned through infiltration galleries from such operations at petroleum refineries, marketing terminals, and bulk plants, until [insert date six months after publication]. New operations involving injection wells (beginning after March 25, 1991) will qualify for this compliance date extension (until January 25, 1993) only if:

(i) Operations are performed pursuant to a written state agreement that includes a provision to assess the groundwater and the need for further remediation once the free phase recovery is completed; and

(ii) A copy of the written agreement has been submitted to: Characteristics Section (OS-333), U.S. Environmental Protection Agency, 401 M Street, SW.,

Washington, DC 20460.

- (12) Used chlorofluorocarbon refrigerants from totally enclosed heat transfer equipment, including mobile air conditioning systems, mobile refrigeration, and commercial and industrial air conditioning and refrigeration systems that use chlorofluorocarbons as the heat transfer fluid in a refrigeration cycle, provided the refrigerant is reclaimed for further use.
- (13) Non-terne plated used oil filters that are not mixed with wastes listed in subpart D of this part if these oil filters have been gravity hot-drained using one of the following methods:
- (i) Puncturing the filter anti-drain back valve or the filter dome end and hot-draining:

(ii) Hot-draining and crushing;

(iii) Dismantling and hot-draining; or (iv) Any other equivalent hot-draining method that will remove used oil.

(14) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.

(c) Hazardous wastes which are exempted from certain regulations. A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated nonwaste-treatment-manufacturing unit, is not subject to regulation under parts 262 through 265, 268, 270, 271 and 124 of this chapter or to the notification requirements of section 3010 of RCRA until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials.

- (d) Samples. (1) Except as provided in paragraph (d)(2) of this section, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of this part or parts 262 through 268 or part 270 or part 124 of this chapter or to the notification requirements of section 3010 of RCRA, when:
- (i) The sample is being transported to a laboratory for the purpose of testing; or
- (ii) The sample is being transported back to the sample collector after testing; or
- (iii) The sample is being stored by the sample collector before transport to a laboratory for testing; or
- (iv) The sample is being stored in a laboratory before testing; or
- (v) The sample is being stored in a laboratory after testing but before it is returned to the sample collector; or
- (vi) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action where further testing of the sample may be necessary).
- (2) In order to qualify for the exemption in paragraphs (d)(1) (i) and (ii) of this section, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:
- (i) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
- (ii) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:
- (A) Assure that the following information accompanies the sample:
- (1) The sample collector's name, mailing address, and telephone number:
- (2) The laboratory's name, mailing address, and telephone number;
 - (3) The quantity of the sample;
 - (4) The date of shipment; and
 - (5) A description of the sample.

- (B) Package the sample so that it does not leak, spill, or vaporize from its packaging.
- (3) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in paragraph (d)(1) of this section.
- (e) Treatability Study Samples. (1) Except as provided in paragraph (e)(2) of this section, persons who generate or collect samples for the purpose of conducting treatability studies as defined in section 260.10, are not subject to any requirement of parts 261 through 263 or this chapter or to the notification requirements of Section 3010 of RCRA, nor are such samples included in the quantity determinations of §261.5 and §262.34(d) when:
- (i) The sample is being collected and prepared for transportation by the generator or sample collector; or
- (ii) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or
- (iii) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.
- (2) The exemption in paragraph (e)(1) of this section is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:
- (i) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated waste stream; and
- (ii) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and
- (iii) The sample must be packaged so that it will not leak, spill, or vaporize

from its packaging during shipment and the requirements of paragraph A or B of this subparagraph are met.

- (A) The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
- (B) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:
- (1) The name, mailing address, and telephone number of the originator of the sample:
- (2) The name, address, and telephone number of the facility that will perform the treatability study;
 - (3) The quantity of the sample;
 - (4) The date of shipment; and
- (5) A description of the sample, including its EPA Hazardous Waste Number.
- (iv) The sample is shipped to a laboratory or testing facility which is exempt under §261.4(f) or has an appropriate RCRA permit or interim status.
- (v) The generator or sample collector maintains the following records for a period ending 3 years after completion of the treatability study:
- (A) Copies of the shipping documents; (B) A copy of the contract with the facility conducting the treatability study:
 - (C) Documentation showing:
- (1) The amount of waste shipped under this exemption;
- (2) The name, address, and EPA identification number of the laboratory or testing facility that received the waste:
- (3) The date the shipment was made; and
- (4) Whether or not unused samples and residues were returned to the generator.
- (vi) The generator reports the information required under paragraph (e)(v)(C) of this section in its biennial report
- (3) The Regional Administrator may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Regional Administrator may grant requests on a case-

by-case basis for quantity limits in excess of those specified in paragraphs (e)(2) (i) and (ii) and (f)(4) of this section, for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste and 1 kg of acute hazardous waste:

- (i) In response to requests for authorization to ship, store and conduct treatabilty studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process (e.g., batch versus continuous), size of the unit undergoing testing (particularly in relation to scale-up considerations), the time/quantity of material required to reach steady state operating conditions, or test design considerations such as mass balance calculations.
- (ii) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities after initiation or completion of treatability studies, when: There has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of a previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.
- (iii) The additional quantities and timeframes allowed in paragraph (e)(3) (i) and (ii) of this section are subject to all the provisions in paragraphs (e) (1) and (e)(2) (iii) through (vi) of this section. The generator or sample collector must apply to the Regional Administrator in the Region where the sample is collected and provide in writing the following information:
- (A) The reason why the generator or sample collector requires additional time or quantity of sample for treatability study evaluation and the additional time or quantity needed;
- (B) Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for

or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results on each treatability study;

(C) A description of the technical modifications or change in specifications which will be evaluated and the

expected results;

(D) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and

(E) Such other information that the Regional Administrator considers nec-

essary.

- (f) Samples Undergoing Treatability Studies at Laboratories and Testing Facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to RCRA requirements) are not subject to any requirement of this part, part 124, parts 262-266, 268, and 270, or to the notification requirements of Section 3010 of RCRA provided that the conditions of paragraphs (f) (1) through (11) of this section are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to paragraphs (f) (1) through (11) of this section. Where a group of MTUs are located at the same site, the limitations specified in (f) (1) through (11) of this section apply to the entire group of MTUs collectively as if the group were one MTU.
- (1) No less than 45 days before conducting treatability studies, the facility notifies the Regional Administrator, or State Director (if located in an authorized State), in writing that it intends to conduct treatability studies under this paragraph.
- (2) The laboratory or testing facility conducting the treatability study has an EPA identification number.
- (3) No more than a total of 10,000 kg of "as received" media contaminated with non-acute hazardous waste, 2500

kg of media contaminated with acute hazardous waste or 250 kg of other "as received" hazardous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.

- (4) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of non-acute hazardous wastes other than contaminated media, and 1 kg of acute hazardous waste. This quantity limitation does not include treatment materials (including nonhazardous solid waste) added to "as received" hazardous waste.
- (5) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year (two years for treatability studies involving bioremediation) have elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.
- (6) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.
- (7) The facility maintains records for 3 years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:
- (i) The name, address, and EPA identification number of the generator or sample collector of each waste sample;
- (ii) The date the shipment was received;
- (iii) The quantity of waste accepted;

(iv) The quantity of "as received" waste in storage each day:

(v) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;

(vi) The date the treatability study was concluded;

(vii) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated facility, the name of the facility and the EPA identification number.

(8) The facility keeps, on-site, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending 3 years from the completion date of each treatability study.

(9) The facility prepares and submits a report to the Regional Administrator, or State Director (if located in an authorized State), by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:

(i) The name, address, and EPA identification number of the facility conducting the treatability studies;

(ii) The types (by process) of treatability studies conducted;

(iii) The names and addresses of persons for whom studies have been conducted (including their EPA identification numbers):

(iv) The total quantity of waste in storage each day;

(v) The quantity and types of waste subjected to treatability studies;

(vi) When each treatability study was conducted;

(vii) The final disposition of residues and unused sample from each treatability study.

(10) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under § 261.3 and, if so, are subject to parts 261 through 268, and part 270 of this chapter, unless the residues and unused samples are returned to the sample originator under the § 261.4(e) exemption.

(11) The facility notifies the Regional Administrator, or State Director (if located in an authorized State), by letter when the facility is no longer planning to conduct any treatability studies at the site.

[45 FR 33119, May 19, 1980]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §261.4, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§261.5 Special requirements for hazardous waste generated by conditionally exempt small quantity generators.

(a) A generator is a conditionally exempt small quantity generator in a calendar month if he generates no more than 100 kilograms of hazardous waste in that month.

(b) Except for those wastes identified in paragraphs (e), (f), (g), and (j) of this section, a conditionally exempt small quantity generator's hazardous wastes are not subject to regulation under parts 262 through 266, 268, and parts 270 and 124 of this chapter, and the notification requirements of section 3010 of RCRA, provided the generator complies with the requirements of paragraphs (f), (g), and (j) of this section.

(c) When making the quantity determinations of this part and 40 CFR part 262, the generator must include all hazardous waste that it generates, except hazardous waste that:

(1) Is exempt from regulation under 40 CFR 261.4(c) through (f), 261.6(a)(3), 261.7(a)(1), or 261.8; or

(2) Is managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in 40 CFR 260.10; or

(3) Is recycled, without prior storage or accumulation, only in an on-site process subject to regulation under 40 CFR 261.6(c)(2); or

(4) Is used oil managed under the requirements of 40 CFR 261.6(a)(4) and 40 CFR part 279; or

(5) Is spent lead-acid batteries managed under the requirements of 40 CFR part 266, subpart G; or

(6) Is universal waste managed under 40 CFR 261.9 and 40 CFR part 273.

- (d) In determining the quantity of hazardous waste generated, a generator need not include:
- (1) Hazardous waste when it is removed from on-site storage; or
- (2) Hazardous waste produced by onsite treatment (including reclamation) of his hazardous waste, so long as the hazardous waste that is treated was counted once; or
- (3) Spent materials that are generated, reclaimed, and subsequently reused on-site, so long as such spent materials have been counted once.
- (e) If a generator generates acute hazardous waste in a calendar month in quantities greater than set forth below, all quantities of that acute hazardous waste are subject to full regulation under parts 262 through 266, 268, and parts 270 and 124 of this chapter, and the notification requirements of section 3010 of RCRA:
- (1) A total of one kilogram of acute hazardous wastes listed in §§ 261.31, 261.32, or 261.33(e).
- (2) A total of 100 kilograms of any residue or contaminated soil, waste, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous wastes listed in §§ 261.31, 261.32, or 261.33(e).

[Comment: ''Full regulation'' means those regulations applicable to generators of greater than 1,000 kg of non-acutely hazardous waste in a calendar month.]

- (f) In order for acute hazardous wastes generated by a generator of acute hazardous wastes in quantities equal to or less than those set forth in paragraph (e)(1) or (2) of this section to be excluded from full regulation under this section, the generator must comply with the following requirements:
 - (1) Section 262.11 of this chapter;
- (2) The generator may accumulate acute hazardous waste on-site. If he accumulates at any time acute hazardous wastes in quantities greater than those set forth in paragraph (e)(1) or (e)(2) of this section, all of those accumulated wastes are subject to regulation under parts 262 through 266, 268, and parts 270 and 124 of this chapter, and the applicable notification requirements of section 3010 of RCRA. The time period of \$262.34(a) of this chapter, for accumulation of wastes on-site, begins when the accumulated wastes exceed the applicable exclusion limit;

- (3) A conditionally exempt small quantity generator may either treat or dispose of his acute hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage, or disposal facility, either of which, if located in the U.S., is:
- (i) Permitted under part 270 of this chapter;
- (ii) In interim status under parts 270 and 265 of this chapter;
- (iii) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under part 271 of this chapter;
- (iv) Permitted, licensed, or registered by a State to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to Part 258 of this chapter;
- (v) Permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements in §§ 257.5 through 257.30 of this chapter; or
 - (vi) A facility which:
- (A) Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or
- (B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or
- (vii) For universal waste managed under part 273 of this chapter, a universal waste handler or destination facility subject to the requirements of part 273 of this chapter.
- (g) In order for hazardous waste generated by a conditionally exempt small quantity generator in quantities of less than 100 kilograms of hazardous waste during a calendar month to be excluded from full regulation under this section, the generator must comply with the following requirements:
 - (1) Section 262.11 of this chapter;
- (2) The conditionally exempt small quantity generator may accumulate hazardous waste on-site. If he accumulates at any time more than a total of 1000 kilograms of his hazardous wastes, all of those accumulated wastes are subject to regulation under the special provisions of part 262 applicable to generators of between 100 kg and 1000 kg of hazardous waste in a calendar month as well as the requirements of parts 263

through 266, 268, and parts 270 and 124 of this chapter, and the applicable notification requirements of section 3010 of RCRA. The time period of §262.34(d) for accumulation of wastes on-site begins for a conditionally exempt small quantity generator when the accumulated wastes exceed 1000 kilograms;

- (3) A conditionally exempt small quantity generator may either treat or dispose of his hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is:
- (i) Permitted under part 270 of this chapter;
- (ii) In interim status under parts 270 and 265 of this chapter;
- (iii) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under part 271 of this chapter;
- (iv) Permitted, licensed, or registered by a State to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to Part 258 of this chapter;
- (v) Permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements in §§ 257.5 through 257.30 of this chapter; or
 - (vi) A facility which:
- (A) Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or
- (B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or
- (vii) For universal waste managed under part 273 of this chapter, a universal waste handler or destination facility subject to the requirements of part 273 of this chapter.
- (h) Hazardous waste subject to the reduced requirements of this section may be mixed with non-hazardous waste and remain subject to these reduced requirements even though the resultant mixture exceeds the quantity limitations identified in this section, unless the mixture meets any of the characteristics of hazardous waste identified in subpart C.
- (i) If any person mixes a solid waste with a hazardous waste that exceeds a

quantity exclusion level of this section, the mixture is subject to full regulation.

- (j) If a conditionally exempt small quantity generator's wastes are mixed with used oil, the mixture is subject to part 279 of this chapter if it is destined to be burned for energy recovery. Any material produced from such a mixture by processing, blending, or other treatment is also so regulated if it is destined to be burned for energy recovery.
- [51 FR 10174, Mar. 24, 1986, as amended at 51 FR 28682, Aug. 8, 1986; 51 FR 40637, Nov. 7, 1986; 53 FR 27163, July 19, 1988; 58 FR 26424, May 3, 1993; 60 FR 25541, May 11, 1995; 61 FR 34278, July 1, 1996]

EFFECTIVE DATE NOTE: At 61 FR 34278, July 1, 1996, \S 261.5 was amended by revising (f)(3) and (g)(3), effective Jan. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§261.5 Special requirements for hazardous waste generated by conditionally exempt small quantity generators.

* * * * *

(f) * * *

- (3) A conditionally exempt small quantity generator may either treat or dispose of his acute hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is:
- (i) Permitted under part 270 of this chapter;
- (ii) In interim status under parts 270 and 265 of this chapter;
- (iii) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under part 271 of this chapter;
- (iv) Permitted, licensed, or registered by a State to manage municipal or industrial solid waste;
- (v) A facility which:
- (A) Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or
- (B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation: or
- (vi) For universal waste managed under part 273 of this chapter, a universal waste handler or destination facility subject to the requirements of part 273 of this chapter.
 - (g)* * :
- (3) A conditionally exempt small quantity generator may either treat or dispose of his hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is:

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- (i) Permitted under part 270 of this chapter;
- (ii) In interim status under parts 270 and 265 of this chapter;
- (iii) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under part 271 of this chapter;
- (iv) Permitted, licensed, or registered by a State to manage municipal or industrial solid waste;
 - (v) A facility which:
- (A) Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or
- (B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or
- (vi) For universal waste managed under part 273 of this chapter, a universal waste handler or destination facility subject to the requirements of part 273 of this chapter.

* * * *

§ 261.6 Requirements for recyclable materials.

- (a)(1) Hazardous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of paragraphs (b) and (c) of this section, except for the materials listed in paragraphs (a)(2) and (a)(3) of this section. Hazardous wastes that are recycled will be known as "recyclable materials."
- (2) The following recyclable materials are not subject to the requirements of this section but are regulated under subparts C through H of part 266 of this chapter and all applicable provisions in parts 270 and 124 of this chapter:
- (i) Recyclable materials used in a manner constituting disposal (subpart C);
- (ii) Hazardous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under subpart O of part 264 or 265 of this chapter (subpart H);
- (iii) Recyclable materials from which precious metals are reclaimed (subpart F):
- (iv) Spent lead-acid batteries that are being reclaimed (subpart G).
- (3) The following recyclable materials are not subject to regulation under parts 262 through parts 266 or parts 268, 270 or 124 of this chapter, and are not subject to the notification requirements of section 3010 of RCRA:

- (i) Industrial ethyl alcohol that is reclaimed except that, unless provided otherwise in an international agreement as specified in § 262.58:
- (A) A person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, must comply with the requirements applicable to a primary exporter in §§ 262.53, 262.56 (a)(1)-(4), (6), and (b), and 262.57, export such materials only upon consent of the receiving country and in conformance with the EPA Acknowledgment of Consent as defined in subpart E of part 262, and provide a copy of the EPA Acknowledgment of Consent to the shipment to the transporter transporting the shipment for export;
- (B) Transporters transporting a shipment for export may not accept a shipment if he knows the shipment does not conform to the EPA Acknowledgment of Consent, must ensure that a copy of the EPA Acknowledgment of Consent accompanies the shipment and must ensure that it is delivered to the facility designated by the person initiating the shipment.

(ii) Scrap metal;

- (iii) Fuels produced from the refining of oil-bearing hazardous waste along with normal process streams at a petroleum refining facility if such wastes result from normal petroleum refining, production, and transportation practices (this exemption does not apply to fuels produced from oil recovered from oil-bearing hazardous waste, where such recovered oil is already excluded under §261.4(a)(12):
- (iv)(A) Hazardous waste fuel produced from oil-bearing hazardous wastes from petroleum refining, production, or transportation practices, or produced from oil reclaimed from such hazardous wastes, where such hazardous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil so long as the resulting fuel meets the used oil specification under §266.40(e) of this chapter and so long as no other hazardous wastes are used to produce the hazardous waste fuel;
- (B) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining production, and transportation practices, where such

hazardous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under §266.40(e) of this chapter; and

 (\dot{C}) Oil reclaimed from oil-bearing hazardous wastes from petroleum refining, production, and transportation practices, which reclaimed oil is burned as a fuel without reintroduction to a refining process, so long as the reclaimed oil meets the used oil fuel specification under \$266.40(e) of this chapter; and

(v) Petroleum coke produced from petroleum refinery hazardous wastes containing oil by the same person who generated the waste, unless the resulting coke product exceeds one or more of the characteristics of hazardous waste in part 261, subpart C.

(4) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of parts 260 through 268 of this chapter, but is regulated under part 279 of this chapter. Used oil that is recycled includes any used oil which is reused, following its original use, for any purpose (including the purpose for which the oil was originally used). Such term includes, but is not limited to, oil which is re-refined, reclaimed, burned for energy recovery, or reprocessed.

(5) Hazardous waste that is exported to or imported from designated member countries of the Organization for Economic Cooperation and Development (OECD) (as defined in §262.58(a)(1)) for purpose of recovery is subject to the requirements of 40 CFR part 262, subpart H, if it is subject to either the Federal manifesting requirements of 40 CFR Part 262, to the universal waste management standards of 40 CFR Part 273, or to State requirements analogous to 40 CFR Part 273.

(b) Generators and transporters of recyclable materials are subject to the applicable requirements of parts 262 and 263 of this chapter and the notification requirements under section 3010 of RCRA, except as provided in paragraph (a) of this section.

(c)(1) Owners or operators of facilities that store recyclable materials before they are recycled are regulated

under all applicable provisions of subparts A through L, AA, and BB of parts 264 and 265, and under parts 124, 266, 268, and 270 of this chapter and the notification requirements under section 3010 of RCRA, except as provided in paragraph (a) of this section. (The recycling process itself is exempt from regulation except as provided in §261.6(d).)

(2) Owners or operators of facilities that recycle recyclable materials without storing them before they are rcycled are subject to the following requirements, except as provided in paragraph (a) of this section:

(i) Notification requirements under section 3010 of RCRA:

(ii) Sections 265.71 and 265.72 (dealing with the use of the manifest and manifest discrepancies) of this chapter.

(iii) Section 261.6(d) of this chapter.

(d) Owners or operators of facilities subject to RCRA permitting requirements with hazardous waste management units that recycle hazardous wastes are subject to the requirements of subparts AA and BB of part 264 or 265 of this chapter.

[50 FR 49203, Nov. 29, 1985, as amended at 51 FR 28682, Aug. 8, 1986; 51 FR 40637, Nov. 7, 1986; 52 FR 11821, Apr. 13, 1987; 55 FR 25493, June 21, 1990; 56 FR 7207, Feb. 21, 1991; 56 FR 32692, July 17, 1991; 57 FR 41612, Sept. 10, 1992; 59 FR 38545, July 28, 1994; 60 FR 25541, May 11, 1995; 61 FR 16309, Apr. 12, 1996]

EFFECTIVE DATE NOTE: At 61 FR 16309, Apr. 12, 1996, $\S 261.6(a)(5)$ was added, effective July 11, 1996.

§261.7 Residues of hazardous waste in empty containers.

(a)(1) Any hazardous waste remaining in either (i) an empty container or (ii) an inner liner removed from an empty container, as defined in paragraph (b) of this section, is not subject to regulation under parts 261 through 265, or part 268, 270 or 124 of this chapter or to the notification requirements of section 3010 of RCRA.

(2) Any hazardous waste in either (i) a container that is not empty or (ii) an inner liner removed from a container that is not empty, as defined in paragraph (b) of this section, is subject to regulation under parts 261 through 265, and parts 268, 270 and 124 of this chapter and to the notification requirements of section 3010 of RCRA.

- (b)(1) A container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified as an acute hazardous waste listed in §§ 261.31, 261.32, or 261.33(e) of this chapter is empty if:
- (i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, *e.g.*, pouring, pumping, and aspirating, *and*
- pouring, pumping, and aspirating, and (ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner, or
- (iii)(A) No more than 3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 110 gallons in size, or
- (B) No more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 110 gallons in size.
- (2) A container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmospheric.
- (3) A container or an inner liner removed from a container that has held an acute hazardous waste listed in §§ 261.31, 261.32, or 261.33(e) is empty if:
- (i) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;
- (ii) The container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or
- (iii) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.

[45 FR 78529, Nov. 25, 1980, as amended at 47 FR 36097, Aug. 18, 1982; 48 FR 14294, Apr. 1, 1983; 50 FR 1999, Jan. 14, 1985; 51 FR 40637, Nov. 7, 1986]

§261.8 PCB wastes regulated under Toxic Substance Control Act.

The disposal of PCB-containing dielectric fluid and electric equipment containing such fluid authorized for use and regulated under part 761 of this chapter and that are hazardous only because they fail the test for the Toxicity Characteristic (Hazardous Waste Codes D018 through D043 only) are exempt from regulation under parts 261 through 265, and parts 268, 270, and 124 of this chapter, and the notification requirements of section 3010 of RCRA.

[55 FR 11862, Mar. 29, 1990]

§ 261.9 Requirements for Universal Waste.

The wastes listed in this section are exempt from regulation under parts 262 through 270 of this chapter except as specified in part 273 of this chapter and, therefore are not fully regulated as hazardous waste. The wastes listed in this section are subject to regulation under 40 CFR part 273:

- (a) Batteries as described in 40 CFR 273.2;
- (b) Pesticides as described in $40\ \text{CFR}$ 273.3; and
- (c) Thermostats as described in 40 CFR 273.4.

[60 FR 25541, May 11, 1995]

Subpart B—Criteria for Identifying the Characteristics of Hazardous Waste and for Listing Hazardous Waste

§261.10 Criteria for identifying the characteristics of hazardous waste.

- (a) The Administrator shall identify and define a characteristic of hazardous waste in subpart C only upon determining that:
- (1) A solid waste that exhibits the characteristic may:
- (i) Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or
- (ii) Pose a substantial present or potential hazard to human health or the environment when it is improperly treated, stored, transported, disposed of or otherwise managed; and
 - (2) The characteristic can be:
- (i) Measured by an available standardized test method which is reasonably within the capability of generators of solid waste or private sector laboratories that are available to serve generators of solid waste; or

(ii) Reasonably detected by generators of solid waste through their knowledge of their waste.

§261.11 Criteria for listing hazardous waste.

- (a) The Administrator shall list a solid waste as a hazardous waste only upon determining that the solid waste meets one of the following criteria:
- (1) It exhibits any of the characteristics of hazardous waste identified in subpart C.
- (2) It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have an oral LD 50toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC 50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD 50 toxicity (rabbit) of less than 200 milligrams per kilogram or is otherwise capable of causing or significantly contributing to an increase in serious irreversible, or incapacitating reversible, illness. (Waste listed in accordance with these criteria will be designated Acute Hazardous Waste.)
- (3) It contains any of the toxic constituents listed in appendix VIII and, after considering the following factors, the Administrator concludes that the waste is capable of posing a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed:
- (i) The nature of the toxicity presented by the constituent.
- (ii) The concentration of the constituent in the waste.
- (iii) The potential of the constituent or any toxic degradation product of the constituent to migrate from the waste into the environment under the types of improper management considered in paragraph (a)(3)(vii) of this section.
- (iv) The persistence of the constituent or any toxic degradation product of the constituent.
- (v) The potential for the constituent or any toxic degradation product of the constituent to degrade into non-harmful constituents and the rate of degradation.
- (vi) The degree to which the constituent or any degradation product of the

constituent bioaccumulates in ecosystems.

- (vii) The plausible types of improper management to which the waste could be subjected.
- (viii) The quantities of the waste generated at individual generation sites or on a regional or national basis.
- (ix) The nature and severity of the human health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent.
- (x) Action taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent.
- (xi) Such other factors as may be appropriate.

Substances will be listed on appendix VIII only if they have been shown in scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

- (Wastes listed in accordance with these criteria will be designated Toxic wastes.)
- (b) The Administrator may list classes or types of solid waste as hazardous waste if he has reason to believe that individual wastes, within the class or type of waste, typically or frequently are hazardous under the definition of hazardous waste found in section 1004(5) of the Act.
- (c) The Administrator will use the criteria for listing specified in this section to establish the exclusion limits referred to in §261.5(c).

[45 FR 33119, May 19, 1980, as amended at 55 FR 18726, May 4, 1990; 57 FR 14, Jan. 2, 1992]

Subpart C—Characteristics of Hazardous Waste

§261.20 General.

(a) A solid waste, as defined in §261.2, which is not excluded from regulation as a hazardous waste under §261.4(b), is a hazardous waste if it exhibits any of the characteristics identified in this subpart.

[Comment: §262.11 of this chapter sets forth the generator's responsibility to determine whether his waste exhibits one or more of the characteristics identified in this subpart]

- (b) A hazardous waste which is identified by a characteristic in this subpart is assigned every EPA Hazardous Waste Number that is applicable as set forth in this subpart. This number must be used in complying with the notification requirements of section 3010 of the Act and all applicable record-keeping and reporting requirements under parts 262 through 265, 268, and 270 of this chapter.
- (c) For purposes of this subpart, the Administrator will consider a sample obtained using any of the applicable sampling methods specified in appendix I to be a representative sample within the meaning of part 260 of this chapter.

[Comment: Since the appendix I sampling methods are not being formally adopted by the Administrator, a person who desires to employ an alternative sampling method is not required to demonstrate the equivalency of his method under the procedures set forth in §§ 260.20 and 260.21.]

[45 FR 33119, May 19, 1980, as amended at 51 FR 40636, Nov. 7, 1986; 55 FR 22684, June 1, 1990; 56 FR 3876, Jan. 31, 1991]

§261.21 Characteristic of ignitability.

- (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:
- (1) It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has flash point less than 60°C (140°F), as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80 (incorporated by reference, see \$260.11), or a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D-3278-78 (incorporated by reference, see \$260.11), or as determined by an equivalent test method approved by the Administrator under procedures set forth in §\$260.20 and 260.21.
- (2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.
- (3) It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described

in that regulation or equivalent test methods approved by the Administrator under §§ 260.20 and 260.21.

- (4) It is an oxidizer as defined in 49 CFR 173.151.
- (b) A solid waste that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001.

[45 FR 33119, May 19, 1980, as amended at 46 FR 35247, July 7, 1981; 55 FR 22684, June 1, 1990]

§261.22 Characteristic of corrosivity.

- (a) A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties:
- (1) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using Method 9040 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in § 260.11 of this chapter.
- (2) It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55°C (130°F) as determined by the test method specified in NACE (National Association of Corrosion Engineers) Standard TM-01-69 as standardized in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in §260.11 of this chapter.
- (b) A solid waste that exhibits the characteristic of corrosivity has the EPA Hazardous Waste Number of D002.

[45 FR 33119, May 19, 1980, as amended at 46 FR 35247, July 7, 1981; 55 FR 22684, June 1, 1990; 58 FR 46049, Aug. 31, 1993]

§261.23 Characteristic of reactivity.

- (a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has *any* of the following properties:
- (1) It is normally unstable and readily undergoes violent change without detonating.
 - (2) It reacts violently with water.
- (3) It forms potentially explosive mixtures with water.
- (4) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.

- (5) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- (6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
- (7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
- (8) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.88
- (b) A solid waste that exhibits the characteristic of reactivity has the EPA Hazardous Waste Number of D003.

[45 FR 33119, May 19, 1980, as amended at 55 FR 22684, June 1, 1990]

§261.24 Toxicity characteristic.

- (a) A solid waste exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in §260.11 of this chapter, the extract from a representative sample of the waste contains any of the contaminants listed in table 1 at the concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section.
- (b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazard-

TABLE 1-MAXIMUM CONCENTRATION OF CON-TAMINANTS FOR THE TOXICITY CHARACTERIS-TIC

EPA HW No.1	Contaminant	CAS No.2	Regu- latory Level (mg/L)
D004	Arsenic	7440–38–2	5.0

TABLE 1-MAXIMUM CONCENTRATION OF CON-TAMINANTS FOR THE TOXICITY CHARACTERIS-TIC—Continued

EPA HW No.1	Contaminant	CAS No. ²	Regu- latory Level (mg/L)
D005	Barium	7440-39-3	100.0
D018	Benzene	71-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	95-48-7	4200.0
D024	m-Cresol	108-39-4	4200.0
D025	p-Cresol	106-44-5	4200.0
D026	Cresol		4200.0
D016	2,4-D	94–75–7	10.0
D027	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75–35–4	0.7
D030	2,4-Dinitrotoluene	121-14-2	30.13
D012	Endrin	72–20–8	0.02
D031	Heptachlor (and its ep- oxide).	76–44–8	0.008
D032	Hexachlorobenzene	118–74–1	3 0.13
D033	Hexachlorobutadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	58-89-9	0.4
D009	Mercury	7439–97–6	0.2
D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98–95–3	2.0
D037	Pentrachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	³ 5.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	79–01–6	0.5
D041	2,4,5-Trichlorophenol	95–95–4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D017	2,4,5-TP (Silvex)	93-72-1	1.0
D043	Vinyl chloride	75–01–4	0.2

Hazardous waste number

[55 FR 11862, Mar. 29, 1990, as amended at 55FR 22684, June 1, 1990; 55 FR 26987, June 29, 1990; 58 FR 46049, Aug. 31, 1993]

Subpart D—Lists of Hazardous Wastes

§261.30 General.

- (a) A solid waste is a hazardous waste if it is listed in this subpart, unless it has been excluded from this list under §§ 260.20 and 260.22.
- (b) The Administrator will indicate his basis for listing the classes or types

²Chemical abstracts service number.

³Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory

⁴ If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

of wastes listed in this subpart by employing one or more of the following Hazard Codes:

Ignitable Waste	(I)
Corrosive Waste	(C)
Reactive Waste	(R)
Toxicity Characteristic Waste	(E)
Acute Hazardous Waste	(H)
Toxic Waste	(T)

Appendix VII identifies the constituent which caused the Administrator to list the waste as a Toxicity Characteristic Waste (E) or Toxic Waste (T) in §§ 261.31 and 261.32.

(c) Each hazardous waste listed in this subpart is assigned an EPA Haz-

ardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of Section 3010 of the Act and certain recordkeeping and reporting requirements under parts 262 through 265, 268, and part 270 of this chapter.

(d) The following hazardous wastes listed in §261.31 or §261.32 are subject to the exclusion limits for acutely hazardous wastes established in §261.5: EPA Hazardous Wastes Nos. FO20, FO21, FO22, FO23, FO26, and FO27.

[45 FR 33119, May 19, 1980, as amended at 48 FR 14294, Apr. 1, 1983; 50 FR 2000, Jan. 14, 1985; 51 FR 40636, Nov. 7, 1986; 55 FR 11863, Mar. 29, 1990]

§261.31 Hazardous wastes from non-specific sources.

(a) The following solid wastes are listed hazardous wastes from non-specific sources unless they are excluded under \S 260.20 and 260.22 and listed in appendix IX.

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
Generic: F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(1)*
F004	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F005	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I,T)
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.	(Т)
F007	Spent cyanide plating bath solutions from electroplating operations	(R, T)

Industry	and EPA hazardous waste No.	Hazardous waste	Hazard code
F008		Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.	(R, T)
F009		Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	(R, T)
F010		Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	(R, T)
F011		Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	(R, T)
F012		Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.	(T)
F019		Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.	(T)
F020		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	(H)
F021		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	(H)
F022		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	(H)
F023		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	(H)
F024		Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in §261.31 or §261.32.).	(T)
F025		Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	(T)
F026		Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	(H)
F027		Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene sythesized from prepurified 2,4,5-trichlorophenol as the sole component.).	(H)
F028		Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.	(T)
F032		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with §261.35 of this chapter or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(Т)
F034		Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
F035	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
F037	Petroleum refinery primary oil/water/solids separation sludge—Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in § 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051	(Т)
F038	wastes are not included in this listing. Petroleum refinery secondary (emulsified) oil/water/solids separation sludge—Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in § 261.31(b)(2) (including sludges and floats generated in one or more additional units after	(Т)
F039	wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing. Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.).	(T)

- (b) Listing Specific Definitions: (1) For the purposes of the F037 and F038 listings, oil/water/solids is defined as oil and/or water and/or solids.
- (2) (i) For the purposes of the F037 and F038 listings, aggressive biological treatment units are defined as units which employ one of the following four treatment methods: activated sludge; trickling filter; rotating biological contactor for the continuous accelerated biological oxidation of wastewaters; or high-rate aeration. High-rate aeration is a system of surface impoundments or tanks, in which intense mechanical aeration is used to completely mix the wastes, enhance biological activity, and (A) the units employ a minimum of 6 hp per million gallons of treatment volume; and either (B) the hydraulic retention time of the unit is no longer than 5 days; or (C) the hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is a hazardous waste by the Toxicity Characteristic.
- (ii) Generators and treatment, storage and disposal facilities have the burden of proving that their sludges are exempt from listing as F037 and F038 wastes under this definition. Generators and treatment, storage and disposal facilities must maintain, in their operating or other onsite records, documents and data sufficient to prove that: (A) the unit is an aggressive biological treatment unit as defined in this subsection; and (B) the sludges sought to be exempted from the definitions of F037 and/or F038 were actually generated in the aggressive biological treatment unit.
- (3) (i) For the purposes of the F037 listing, sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement.
 - (ii) For the purposes of the F038 listing,
- (A) sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement and

(B) floats are considered to be generated at the moment they are formed in the top of the unit.

[46 FR 4617, Jan. 16, 1981, as amended at 60 FR 33913, June 29, 1995]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting \$261.31, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§261.32 Hazardous wastes from specific sources.

The following solid wastes are listed hazardous wastes from specific sources unless they are excluded under §§ 260.20 and 260.22 and listed in appendix IX.

ndustry and EPA hazardous waste No.	Hazardous waste	Haza code
Wood preservation: K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
norganic pigments:		
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	(T)
K003	Wastewater treatment sludge from the production of molybdate orange pigments	(T)
K004	Wastewater treatment sludge from the production of zinc yellow pigments	(T)
K005	Wastewater treatment sludge from the production of chrome green pigments	(T)
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).	(T)
K007	Wastewater treatment sludge from the production of iron blue pigments	(T)
K008	Oven residue from the production of chrome oxide green pigments	l (Tí
Organic chemicals:		`′
K009	Distillation bottoms from the production of acetaldehyde from ethylene	(T)
K010	Distillation side cuts from the production of acetaldehyde from ethylene	l (Tí
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile	(R, T)
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile	l (R. T)
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile	(T) (
K015	Still bottoms from the distillation of benzyl chloride	(T)
K016	Heavy ends or distillation residues from the production of carbon tetrachloride	(T)
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	(T)
K018	Heavy ends from the fractionation column in ethyl chloride production	(T)
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	(T)
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production	(T)
K020		(T)
K022	Aqueous spent antimony catalyst waste from fluoromethanes production	(T)
K023	Distillation light ends from the production of phenol/acctone from currene	(T)
K024		(T)
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene	(T) (T)
K025	Stripping still tails from the production of methy ethyl pyridines	(H)
K027	Centrifuge and distillation residues from toluene diisocyanate production	(T) (R, T)
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.	(E) 1)
K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane	(T)
K030	Column bottoms or heavy ends from the combined production of trichloroethylene and	(T) (T)
	perchloroethylene.	(1)
K083	Distillation bottoms from aniline production	(T)
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes	(T)
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene	(T)
K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene	(T)
K095	Distillation bottoms from the production of 1,1,1-trichloroethane	(T)
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane	(T)
K103	Process residues from aniline extraction from the production of aniline	(T)
K104	Combined wastewater streams generated from nitrobenzene/aniline production	(T)
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	(T)
K107	Column bottoms from product separation from the production of 1,1-dimethyl-hydrazine (UDMH) from carboxylic acid hydrazines.	(C,T)
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(I,T)
K109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(T)
K110	Condensed column overheads from intermediate separation from the production of	(T)
12444	1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(O.T.
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene	(C,T)
K112	Reaction by-product water from the drying column in the production of toluenediamine	(T)

Environmental Protection Agency

Industry	and EPA hazardous waste No.	Hazardous waste	Hazard code
K113		Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K114		Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K115		Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K116		Organic condensate from the solvent recovery column in the production of toluene disocyanate via phosgenation of toluenediamine.	(T)
K117		Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.	(T)
K118		Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
K136		Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
K149		Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups, (This waste does not include still bottoms from the distillation of benzyl chloride.).	(T)
K150		Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	(T)
K151		Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	(T)
K156		Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes.	(T)
K157		Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes.	(T)
K158		Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes.	(T)
		Organics from the treatment of thiocarbamate wastes	(T) (T)
K161		tion of thiocarbamates and solids from the treatment of thiocarbamate wastes. Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126.).	(R,T)
	c chemicals:	, , , , , , , , , , , , , , , , , , ,	
		Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.	(T)
		Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	(T)
		Wastewater treatment sludge from the mercury cell process in chlorine production	(T)
Pesticide		By-product salts generated in the production of MSMA and cacodylic acid	(T)
		Wastewater treatment sludge from the production of chlordane	(T)
		Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	(T)
K034		Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	(T)
		Wastewater treatment sludges generated in the production of creosote	(T)
		Still bottoms from toluene reclamation distillation in the production of disulfoton	(T)
		Wastewater treatment sludges from the production of disulfoton	(T)
		Wastewater from the washing and stripping of phorate production	(T) (T)
K040		phorate. Wastewater treatment sludge from the production of phorate	(T)
K041		Wastewater treatment sludge from the production of toxaphene	(T)
K042		Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	(T)
		2,6-Dichlorophenol waste from the production of 2,4-D	(T) (T)
K098		Untreated process wastewater from the production of toxaphene	(T)
		Untreated wastewater from the production of 2,4-D	(T)
K123		Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salt.	(T)
K124		Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	(C, T)
		Filtration, evaporation, and centrifugation solids from the production of	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
K126	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.	(T)
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	(C, T)
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.	(T)
Explosives:		
K044	Wastewater treatment sludges from the manufacturing and processing of explosives	(R)
K045 K046	Spent carbon from the treatment of wastewater containing explosives	(R) (T)
	lead-based initiating compounds.	
K047	Pink/red water from TNT operations	(R)
Petroleum refining: K048	Discoluted air flatation (DAE) float from the natrology refining industry.	(T)
K049	Dissolved air flotation (DAF) float from the petroleum refining industry	(T) (T)
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry	[(ii)
K050	API separator sludge from the petroleum refining industry	
K051	Tank bottoms (leaded) from the petroleum refining industry	(T)
ron and steel:	Tank bottoms (leaded) from the petroleum remaining mudstry	(T)
K061	Emission control dust/sludge from the primary production of steel in electric furnaces	(T)
K062	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	(T) (C,T)
Primary copper:	and steer modelly (ore codes out and ouz).	
K064	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.	(T)
Primary lead:		
K065	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.	(T)
Primary zinc:		
K066	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.	(T)
Primary aluminum:		
K088	Spent potliners from primary aluminum reduction	(T)
erroalloys:		_
K090	Emission control dust or sludge from ferrochromiumsilicon production	(T)
K091	Emission control dust or sludge from ferrochromium production	(T)
Secondary lead:		
K069	Emission control dust/sludge from secondary lead smelting. (NOTE: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting this stay, EPA will publish a notice of the action in the Federal Register.	(T)
K100	Waste leaching solution from acid leaching of emission control dust/sludge from sec- ondary lead smelting.	(T)
/eterinary pharmaceuticals:		
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
nk formulation:	· · ·	
K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.	(T)
Coking:		
K060	Ammonia still lime sludge from coking operations	(T)
K087	Decanter tank tar sludge from coking operations	(T)
K141	Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar shudges from coking appreciations)	(T)
K142	sludges from coking operations). Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.	(T)
K143	Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-	(T)
	products produced from coal. Wastewater sump residues from light oil refining, including, but not limited to, inter-	(T)
K144	cepting or contamination sump sludges from the recovery of coke by-products pro-	` '
K144		(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
K148	Residues from coal tar distillation, including but not limited to, still bottoms	(T)

[46 FR 4618, Jan. 16, 1981; 60 FR 7849, Feb. 9, 1995]

EDITORIAL NOTE: For Federal Register citations affecting §261.32, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 261.33 Discarded commercial chemical products, off-specification species, container residues, and spill residues thereof.

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded as described in §261.2(a)(2)(i), when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment, when they are otherwise applied to the land in lieu of their original intended use or when they are contained in products that are applied to the land in lieu of their original intended use, or when, in lieu of their original intended use, they are produced for use as (or as a component of) a fuel, distributed for use as a fuel, or burned as a fuel.

- (a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section.
- (b) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section.
- (c) Any residue remaining in a container or in an inner liner removed from a container that has held any commercial chemical product or manu-

facturing chemical intermediate having the generic name listed in paragraphs (e) or (f) of this section, unless the container is empty as defined in §261.7(b) of this chapter.

[Comment: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed; or being accumulated, stored, transported or treated prior to such use, re-use, recycling or reclamation, EPA considers the residue to be intended for discard, and thus, a hazardous waste. An example of a legitimate re-use of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where the drum is sent to a drum reconditioner who reconditions the drum but discards the residue.]

(d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification chemical product and manuchemical facturing intermediate which, if it met specifications, would

have the generic name listed in paragraph (e) or (f) of this section.

[Comment: The phrase "commercial chemical product or manufacturing chemical intermediate having the generic name listed in .

." refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in paragraph (e) or (f). Where a manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in paragraph (e) or (f), such waste will be listed in either §261.31 or §261.32 or will be identified as a hazardous waste by the characteristics set forth in subpart C of this part.]

(e) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products or manufacturing chemical intermediates referred to in paragraphs (a) through (d) of this section, are identified as acute hazardous wastes (H) and are subject to be the small quantity exclusion defined in §261.5(e).

[Comment: For the convenience of the regulated community the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), and R (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity.]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

Hazard- ous waste No.	Chemical abstracts No.	Substance
P023	107-20-0	Acetaldehyde, chloro-
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-
P057	640–19–7	Acetamide, 2-fluoro-
P058	62-74-8	Acetic acid, fluoro-, sodium salt
P002	591-08-2	1-Acetyl-2-thiourea
P003	107-02-8	Acrolein
P070	116-06-3	Aldicarb
P203	1646-88-4	Aldicarb sulfone.
P004	309-00-2	Aldrin
P005	107-18-6	Allyl alcohol
P006	20859-73-8	Aluminum phosphide (R,T)
P007	2763-96-4	5-(Aminomethyl)-3-isoxazolol
P008	504-24-5	4-Aminopyridine
P009	131–74–8	Ammonium picrate (R)
P119	7803-55-6	Ammonium vanadate
P099	506-61-6	Argentate(1-), bis(cyano-C)-, potassium
P010	7778–39–4	Arsenic acid H ₃ AsO ₄
P012	1327–53–3	Arsenic oxide As ₂ O ₃
P011	1303-28-2	Arsenic oxide As ₂ O ₅
P011	1303–28–2	Arsenic pentoxide
P012	1327–53–3	Arsenic trioxide
P038	692-42-2	Arsine, diethyl-
P036	696–28–6	Arsonous dichloride, phenyl-
P054	151–56–4	Aziridine
P067	75–55–8	Aziridine, 2-methyl-
P013	542-62-1	Barium cyanide
P024	106-47-8	Benzenamine, 4-chloro-
P077	100-01-6	Benzenamine, 4-nitro-
P028	100-44-7	Benzene, (chloromethyl)-
P042	51-43-4	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-, (R)-
P046	122-09-8	Benzeneethanamine, alpha,alpha-dimethyl-
P014	108-98-5	Benzenethiol
P127	1563-66-2	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.
P188	57–64–7	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).
P001	181–81–2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%
P028	100-44-7	Benzyl chloride
P015	7440-41-7	Beryllium powder
P017	598-31-2	Bromoacetone
P018	357-57-3	Brucine
P045	39196–18–4	2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[methylamino)carbonyl] oxime
P021	592-01-8	Calcium cyanide
P021	592-01-8	Calcium cyanide Ca(CN) ₂

Substance Substance Substance Substance Substance No.	Hazard- ous	Chemical ab-	
P191	waste		Substance
P191	P189	55285-14-8	Carbamic acid. [(dibutylamino)- thio]methyl-, 2.3-dihydro-2.2-dimethyl- 7-benzofuranyl ester.
119-38-0 Carbamic acid, dimethyl-, 3-methyl-fr. (1-methylethyl)-1H- pyrazol-5-yl ester.			
P172	P192	119–38–0	
Post	P190	1129-41-5	Carbamic acid, methyl-, 3-methylphenyl ester.
Poss			
Pi88 55285-14-8 Carbosulfan Pi07-20-0 Pi07-2			
P024 107-20-0 Chloroacetaldehyde P024 106-47-8 P027 544-92-3 Cohloroaniline 1-(-Chlorophenyl)thiourea 1-(-Chlorophenyl)thi			
106-47-8			
December Sal-4-Be-7			
Poz. 544-92-3 Copper cyanide Cu(CN)			
PO29 544-92-3 Copper cyanide Cu(CN) PO29 644-92-3 Copper cyanide Cu(CN) PO30 460-19-5 Cyanogen PO31 460-19-6 Cyanogen chloride (CN)Cl PO33 506-77-4 Cyanogen chloride (CN)Cl PO34 131-89-5 Cyclochexy4-6-dinitrophenol PO36 686-28-8 Dichloropherylarsine PO37 60-57-1 Dieldrin PO38 692-42-2 Dieltrylarsine PO41 311-48-5 Diethylarsine PO42 27-97-2 O. Diethyl O-pyrazinyl phosphorothioate PO43 55-91-4 Dissoproyrillourophosphate (DFP) PO44 55-91-4 Dissoproyrillourophosphate (DFP) P060 465-73-6 Lis,8-Dimethanoaphthalea,1-2,3-4,10,10-hexa-chloro-1,4,4a,5,8,8-hexahydro-(1a)pha,4abeta,3elpha,3beta,8beta,8abeta). P074 172-20-8 2,7-3,6-Dimethanoaphthil (2,3-b)oxirans, 3,4,5,6,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1a)pha,2abeta,2abeta,3abpha,3beta,6abeta,3ebta,5beta,6abeta,7beta,7aalpha). P046 122-09-8 Bibba,3abpha-Dimethylphenethylamine P045 12-20-8 Bibba,3abpha-Dimet			
Po20			
Po20			
P031	P202	64-00-6	
P033 506-77-4 Cyanogen chloride (CNCI) P034 131-89-5 Cyanogen chloride (CNCI) P036 698-28-6 Dichloromethyl ether P037 60-57-1 Dichloromethyl ether P038 692-42-2 Dieldrin P041 311-45-5 Dieldrin P042 297-97-2 Dieldryl-p-introphenyl phosphorotrioate P043 55-91-4 O.D-Bethyl O-pyrazinyl phosphorotrioate P044 309-00-2 14,5 8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4alpha,4abeta,5beta,8alpha,8abeta)- P087 60-57-3 2,73,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta)- P081 172-20-8 2,73,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,2beta,2alpha,3beta,6beta,6aalpha,7beta,7aalpha)- P084 60-51-5 Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8beta,8beta,8beta,8beta,8beta,8beta,8beta,9beta,8beta,9beta,8beta			Cyanides (soluble cyanide salts), not otherwise specified
P033 506-77-4 Cyanogen chloride (CN)Cl P036 542-88-1 Dichloromethyl ether P036 696-28-6 Dichlorophenylarsine P037 692-42-2 Diethylarsine P040 297-97-2 Diethylarsine P041 309-00-2 21-04-00 P060 465-73-6 1.6.Dimethanoraphthalene, 1, 2, 3.4, 10, 10-hexa- chloro-1, 4, 4a, 5, 8, 8a, hexahydro-, (talpha, 4alpha, 4abeta, 5abeta, 8abeta). P077 60-57-1 1.72-20-8 P088 172-20-8 2.73, 6-Dimethanonaphthalene, 1, 2, 3, 4, 10, 10-hexa- chloro-1, 4, 4a, 5, 8, 8a, hexahydro-, (talpha, 2beta, 4abeta, 5abeta, 8abeta). P044 60-51-5 1.72-20-8 1.72-3, 6-Dimethanonaphth (2, 3-b)oxirene, 3, 4, 5, 6, 9, hexachloro-1a, 2, 2a, 3, 6, 6a, 7, 7a-octahydro-, (taalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)-, & metabolites P044 60-51-5 1.73, 6-Dimethanonaphth (2, 3-b)oxirene, 3, 4, 5, 6, 9, hexachloro-1a, 2, 2a, 3, 6, 6a, 7, 7a-octahydro-, (taalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)-, & metabolites P045 152-3-5 1.40-10-10-00-00-00-00-00-00-00-00-00-00-00			
P034 131-89-5 2 Cyclonexyl-4, 6-dinitrophenol bichloromethyl ether P036 696-28-6 Dichloromethyl ether P037 60-57-1 Dichloromethyl ether P040 297-97-2 Dichloromethyl ether P040 297-97-2 Discopropylluorophosphate (DFP) P043 55-91-4 Discopropylluorophosphate (DFP) P044 55-91-4 Discopropylluorophosphate (DFP) P040 309-00-2 Discopropylluorophosphate (DFP) P040 465-73-6 1,45,6-Dimethanonaphtalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha,4alpha,4abeta,5beta,8abeta)- P037 60-57-1 2,7:3,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8abeta)- P051 172-20-8 172-20-8 P044 60-51-5 Diphosphoramide, 2,3-bloxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites P047 153-45-21 Diphosphoramide, octamethyl- P048 51-22-5 Diphosphoric acid, tetraethyl ester P049 54-3-3-7 Dibhoseb P041 107-49-3		1	
Dichloromethyl ether			
P036 696-28-6 Dichlorophenylarsine P037 692-42-2 Dieblyrasine P040 297-97-2 Dieblyrasine P041 311-45-5 Dieblyrasine P043 55-91-4 Dispropylfluorophosphate (DFP) P043 55-91-4 Dispropylfluorophosphate (DFP) P044 309-00-2 Dispropylfluorophosphate (DFP) P060 465-73-6 1.5,8-Dimethaonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta) P037 60-57-1 1.5,8-Dimethaonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta) P051 172-20-8 6.0-fillophanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta) P051 172-20-8 6.0-fillophanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta) P051 172-20-8 6.0-fillophanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta) P047 172-20-8 6.0-fillophanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta,9abeta,3beta,9abeta,3beta,9abeta,3beta,9abeta,3beta,9abeta,3beta,9abeta,3beta,9abeta,9			
P037 60–57-1 Diethylarsine P038 692–42-2 Diethylarsine P040 391–45-5 Diethyl-p-nitrophenyl phosphate P043 55–91-4 Disopropyfluorophosphate (DFP) P044 309–00-2 1,45,8-Dimethanonaphtlaelene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro- (Talpha,4a)bha,4abeta,5beta,Beta,Betale,Betale) P060 465–73-6 1,45,8-Dimethanonaphtlaelene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro- (Talpha,4a)bha,4abeta,5beta,Betal,Betal,Betale) P037 60–57-1 2,7:3-6-Dimethanonaphtla/[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro- (Talpha,2beta,2abeta,3alpha,3beta,6beta,6abeta,7beta, 7aalpha)- P044 60–51-5 Dimethoate P045 122–09-8 123–98-8 P191 644–64-4 Dimethoate P046 51–28-5 P046 P047 73-45-25 P047 P048 51–28-5 P048 P049 54-69-9 P101 P049 54-1-69-9 P101 P049 54-69-9 P101 P051 72-20-8 P10 P051 72-20-			
P038 692-42-2 Diethylarsine P040 297-97-2 Diethylarsine P040 55-914 O.D-Diethyl O-pyrazinyl phosphorothioate P043 55-914 Disporopylfluorophosphate (DFP) P060 35-914 Disporopylfluorophosphate (DFP) P060 465-73-6 1,45,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta) P037 60-57-1 2,7:3,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,2beta,2abeta,3abeta) P051 172-20-8 2,7:3,6-Dimethanonaphthalene, 1,2,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha,2beta,2abeta,3alpha,6abeta),6abeta,7beta, 7aalpha)- P044 60-51-5 Dimethian P045 152-8-5 Dimethian P046 12-0-9-8 Dimethian P191 464-64-4 Dimethian P048 15-2-18-5 Dimethian P085 15-2-19-10 Dimoseb P085 15-2-19-10 Diphosphoramide, octamethyl- P111 107-2-0-3 Diphosphoric acid, tetraethyl ester P050 72-20-8			
P041 311-45-5 P042 297-97-2 O-Diethyl O-pyrazinyl phosphorothioate Disopropropylluorophosphate (DFP) 20-Diethyl O-pyrazinyl phosphorothioate Disopropylluorophosphate (DFP) 20-Diethyl O-pyrazinyl phosphorothioate 21-Disopropylluorophosphate (DFP) 27-36-Dimethanonaphtil [2,3-bjoxinen, 3,4,5,6,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta, 7aalpha) 27-36-Dimethanonaphtil [2,3-bjoxinen, 3,4,5,6,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1alpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha) 27-36-Dimethanonaphtil [2,3-bjoxinen,a,3,5,6,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1alpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha) 35-Dimethanonaphtil [2,3-bjoxinen,a,3,5,6,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7agha,3beta,6beta,6alpha,7beta,7agha,3beta,6beta,6alpha,7beta,7agha,3beta,6beta,6alpha,7beta,7agha,3beta,6beta,6alpha,7beta,7agha,3beta,6beta,6alpha,7beta,7agha,3beta,6beta,6alph			
P043 309-00-2 Diisopropylfluorophosphate (DFP)			
P004 309-00-2	P040	297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate
P060			
P037 60-57-1 2,7:3,6-Dimethanonaphthl(2,3-b)[oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1aalpha,2beta,2aalpha,3beta,6abeta,6aalpha,7beta, 7aalpha)- 2,7:3,6-Dimethanonaphth [2,3-b)[oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1aalpha,2beta,2abeta,6aalpha,7beta, 7aalpha)- 2,7:3,6-Dimethanonaphth [2,3-b)[oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-(1aalpha,2beta,2abeta,3alpha,6abeta,7beta, 7aalpha)-, & metabolites Dimethano the alpha,alpha-Dimethylphenethylamine Dimethylphenethylamine Dimethano the alpha,alpha-Dimethylphenethylamine Dimethano the alpha,alpha-Dimethylphenethylamine Dimethylamino the alpha,alpha-Dimethylphenethylamino) Dimethylphenethylamino Dimethylphenethylamino Dimethylphenethylamino Dimethylphenethylamino Dimethylphenethylamino Dimethylphenethylamino Carbonyl]oxime Dimethylphenethylamino Carbonyl]oxime Dimethylphenethylamino Carbonyl]oxime Dimethylphenethylamino Carbonyl]oxyl-2-oxo-, methyl ester Dimethylphenethylamino Carbonyl]oxyl-2-oxo-, methyl ester Dimethylphenethylamino Carbonyl]oxyl-2-oxo-, methyl ester Dimethylphenethylamino Dimethylphenethylamino Carbonyl]oxyl-2-oxo-, methyl ester Dimethylphenethylamino Dimethylphenethylamino Carbonyl]oxyl-2-oxo-, methyl ester Dimethylphene	P004	309–00–2	
	P060	465–73–6	
(1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites	P037		
P046			(1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites
P191			
P047			
P048			
P020 88-85-7 (152-16-9) Diphosphoramide, octamethyl-Diphosphoramide, octamethyl-Dipho			
P085			
P039			
P049	P111	107-49-3	Diphosphoric acid, tetraethyl ester
P185			
P050			
P088			
P051			
P051			
P042			
P194			
P066	P031	460–19–5	
N-[[(methylamino)carbonyl]oxy]-, methyl ester			
P054 151-56-4 Ethyleneimine P097 52-85-7 Famphur P057 640-19-7 Fluorine P058 62-74-8 Fluoroacetic acid, sodium salt P198 23422-53-9 Fremetanate hydrochloride. P197 17702-57-7 Formparanate. P065 628-86-4 Fulminic acid, mercury(2+) salt (R,T) P062 757-58-4 Hexaethyl tetraphosphate P116 79-19-6 Hydrazinecarbothioamide P068 60-34-4 Hydrazine, methyl- P063 74-90-8 Hydrocyanic acid			N-[[(methylamino)carbonyl]oxy]-, methyl ester
P097 52–85–7 Famphur P056 7782–41–4 Fluorine P057 640–19–7 Fluoroacetic acid, sodium salt P058 62–74–8 Fluoroacetic acid, sodium salt P198 23422–53–9 Formetanate hydrochloride. P065 628–86–4 Fulminic acid, mercury(2+) salt (R,T) P062 757–58–4 Heytachlor P061 757–58–4 Hexaethyl tetraphosphate P116 79–19–6 Hydrazinecarbothioamide P063 74–90–8 Hydrocyanic acid			
P056 7782–41–4 Fluorine P057 640–19–7 Fluoroacetamide P058 62–74–8 Fluoroacetic acid, sodium salt P198 23422–53–9 Formetanate hydrochloride. P065 628–86–4 Formparanate. P062 76–44–8 Heptachlor P062 757–58–4 Hexaethyl tetraphosphate P116 79–19–6 Hydrazinecarbothioamide P068 60–34–4 Hydrazine, methyl- P063 74–90–8 Hydrocyanic acid			
P057 640-19-7 bit of control of contr			
P058 62-74-8 Fluoroacetic acid, sodium salt P198 23422-53-9 Formetanate hydrochloride. P197 17702-57-7 Formparanate. P065 628-86-4 Fulminic acid, mercury(2+) salt (R,T) P062 757-58-4 Heytachlor P016 79-19-6 Hydrazinecarbothioamide P068 60-34-4 Hydrazine, methyl- P063 74-90-8 Hydrocyanic acid			
P198 23422–53–9 Formetanate hydrochloride. P197 17702–57–7 Formparanate. P065 628–86–4 Fulminic acid, mercury(2+) salt (R,T) P062 757–58–4 Heptachlor P016 79–19–6 Hydrazinecarbothioamide P068 60–34–4 Hydrazine, methyl- P063 74–90–8 Hydrocyanic acid			
P065 628–86–4 Fulminic acid, mercury(2+) salt (R,T) P059 76–44–8 Heptachlor P062 757–58–4 Hexaethyl tetraphosphate P116 79–19–6 Hydrazinecarbothioamide P063 74–90–8 Hydrozyanic acid	P198	23422-53-9	Formetanate hydrochloride.
P059 76-44-8 Heptachlor P062 757-58-4 Hexaethyl tetraphosphate P116 79-19-6 Hydrazinecarbothioamide P068 60-34-4 Hydrazine, methyl- P063 74-90-8 Hydrocyanic acid			
P062 757–58–4 Hexaethyl tetraphosphate P116 79–19–6 Hydrazinecarbothioamide P068 60–34–4 Hydrazine, methyl- P063 74–90–8 Hydrocyanic acid			
P116 79–19–6 Hydrazinecarbothioamide P068 60–34–4 Hydrazine, methyl- P063 74–90–8 Hydrocyanic acid			
P068 60–34–4 Hydrazine, methyl- P063 74–90–8 Hydrocyanic acid			
P063 74–90–8 Hydrocyanic acid			

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Hazard-	Oh	
ous waste No.	Chemical abstracts No.	Substance
P096	7803–51–2	Hydrogen phosphide
P060	465-73-6	Isodrin
P192	119–38–0	Isolan.
P202	64-00-6	3-Isopropylphenyl N-methylcarbamate.
P007 P196	2763–96–4 15339–36–3	3(2H)-Isoxazolone, 5-(aminomethyl)-
P196	15339–36–3	Manganese, bis(dimethylcarbamodithioato-S,S')-, Manganese dimethyldithiocarbamate.
P092	62–38–4	Mercury, (acetato-O)phenyl-
P065	628-86-4	Mercury fulminate (R,T)
P082	62-75-9	Methanamine, N-methyl-N-nitroso-
P064	624–83–9	Methane, isocyanato-
P016	542-88-1	Methane, oxybis[chloro-
P112 P118	509–14–8 75–70–7	Methane, tetranitro- (R)
P118	23422-53-9	Methanethiol, trichloro- Methanimidamide, N,N-dimethyl-N'-[3-[[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride.
P197	17702-57-7	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-
P050	115–29–7	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-
		hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide
P059	76–44–8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro-
P199	2032–65–7	Methiocarb.
P066	16752–77–5	Methomyl
P068	60-34-4	Methyl hydrazine
P064	624-83-9	Methyl isocyanate
P069	75–86–5	2-Methyllactonitrile
P071 P190	298-00-0 1129-41-5	Methyl parathion Metolcarb.
P128	315-8-4	Mexacarbate.
P072	86–88–4	alpha-Naphthylthiourea
P073	13463-39-3	Nickel carbonyl
P073	13463–39–3	Nickel carbonyl Ni(CO) ₄ , (T-4)-
P074	557-19-7	Nickel cyanide
P074 P075	557–19–7 154–11–5	Nickel cynaide Ni(CN) ₂ Nicotine, & salts
P076	10102-43-9	Nitric oxide
P077	100-01-6	p-Nitroaniline
P078	10102-44-0	Nitrogen dioxide
P076	10102-43-9	Nitrogen oxide NO
P078	10102-44-0	Nitrogen oxide NO ₂
P081 P082	55–63–0 62–75–9	Nitroglycerine (R) N-Nitrosodimethylamine
P084	4549-40-0	N-Nitrosomethylvinylamine
P085	152–16–9	Octamethylpyrophosphoramide
P087	20816-12-0	Osmium oxide OsO ₄ , (T-4)-
P087	20816-12-0	Osmium tetroxide
P088	145–73–3	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P194 P089	23135–22–0 56–38–2	Oxamyl. Parathion
P034	131–89–5	Phenol, 2-cyclohexyl-4,6-dinitro-
P048	51–28–5	Phenol, 2,4-dinitro-
P047	¹ 534–52–1	Phenol, 2-methyl-4,6-dinitro-, & salts
P020	88–85–7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
P009	131–74–8	Phenol, 2,4,6-trinitro-, ammonium salt (R)
P128 P199	315–18–4 2032–65–7	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester). Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate
P202	64-00-6	Phenol, 3-(1-methylethyl)-, methyl carbamate.
P201	2631–37–0	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate.
P092	62-38-4	Phenylmercury acetate
P093	103-85-5	Phenylthiourea
P094	298-02-2	Phorate
P095	75–44–5	Phospene
P096 P041	7803–51–2 311–45–5	Phosphine Phosphoric acid, diethyl 4-nitrophenyl ester
P039	298-04-4	Priosprioric acid, dietrity 4-mitoprieriyi ester Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester
P094	298–02–2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester
P044	60–51–5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
P043	55–91–4	Phosphorofluoridic acid, bis(1-methylethyl) ester
P089	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
P040	297–97–2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester

Hazard- ous waste No.	Chemical abstracts No.	Substance
P097	52–85–7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
P071	298-00-0	Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester
P204	57–47–6	Physostigmine.
P188	57–64–7	Physostigmine salicylate.
P110	78-00-2	Plumbane, tetraethyl-
P098 P098	151–50–8 151–50–8	Potassium cyanide Potassium cyanide K(CN)
P099	506-61-6	Potassium silver cyanide
P201	2631–37–0	Promecarb
P070	116-06-3	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime
P203	1646-88-4	Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime.
P101	107–12–0	Propanenitrile
P027	542-76-7	Propanenitrile, 3-chloro-
P069	75–86–5	Propanenitrile, 2-hydroxy-2-methyl-
P081 P017	55–63–0 598–31–2	1,2,3-Propanetriol, trinitrate (R) 2-Propanone, 1-bromo-
P102	107–19–7	Propargyl alcohol
P003	107-13-7	2-Propenal
P005	107–18–6	2-Propen-1-ol
P067	75–55–8	1,2-Propylenimine
P102	107–19–7	2-Propyn-1-ol
P008	504–24–5	4-Pyridinamine
P075 P204	¹ 54–11–5 57–47–6	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)
P114	12039–52–0	Selenious acid, dithallium(1+) salt
P103	630–10–4	Selenourea
P104	506-64-9	Silver cyanide
P104	506-64-9	Silver cyanide Ag(CN)
P105	26628–22–8	Sodium azide
P106	143–33–9	Sodium cyanide
P106	143–33–9	Sodium cyanide Na(CN)
P108 P018	¹ 57–24–9 357–57–3	Strychnidin-10-one, & salts Strychnidin-10-one, 2,3-dimethoxy-
P108	157-24-9	Strychnine, & salts
P115	7446–18–6	Sulfuric acid, dithallium(1+) salt
P109	3689-24-5	Tetraethyldithiopyrophosphate
P110	78-00-2	Tetraethyl lead
P111	107-49-3	Tetraethyl pyrophosphate
P112	509–14–8	Tetranitromethane (R)
P062	757–58–4	Tetraphosphoric acid, hexaethyl ester
P113 P113	1314–32–5 1314–32–5	Thallic oxide Thallium oxide Tl ₂ O ₃
P113 P114	12039-52-0	Thallium Oxide Ti ₂ O ₃ Thallium(I) selenite
P115	7446–18–6	Thallium(I) sulfate
P109	3689–24–5	Thiodiphosphoric acid, tetraethyl ester
P045	39196–18–4	Thiofanox
P049	541–53–7	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH
P014	108–98–5	Thiophenol
P116	79–19–6	Thiosemicarbazide Thiourea, (2-chlorophenyl)-
P026 P072	5344–82–1 86–88–4	Thiourea, (z-chiorophenyi)- Thiourea, 1-naphthalenyi-
P093	103-85-5	Thiourea, phenyl-
P185	26419–73–8	Tirpate.
P123	8001-35-2	Toxaphene
P118	75–70–7	Trichloromethanethiol
P119	7803–55–6	Vanadic acid, ammonium salt
P120	1314-62-1	Vanadium oxide V ₂ O ₅
P120	1314-62-1	Vanadium pentoxide
P084 P001	4549-40-0 181-81-2	Vinylamine, N-methyl-N-nitroso- Warfarin, & salts, when present at concentrations greater than 0.3%
P205	137–30–4	Zinc, bis(dimethylcarbamodithioato-S,S')-,
P121	557-21-1	Zinc cyanide
P121	557-21-1	Zinc cyanide Zn(CN) ₂
P122	1314–84–7	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10% (R,T)
P205	137-30-4	Ziram.

¹ CAS Number given for parent compound only.

(f) The commercial chemical products, manfacturing chemical intermediates, or off-specification commercial chemical products referred to in paragraphs (a) through (d) of this section, are identified as toxic wastes (T), unless otherwise designated and are

subject to the small quantity generator exclusion defined in §261.5 (a) and (g).

[Comment: For the convenience of the regulated community, the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), R (Reactivity), I (Ignitability) and C (Corrosivity). Absence of a letter indicates that the compound is only listed for toxicity.]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

		EPA Hazardous waste Numbers are:
Hazard- ous waste No.	Chemical abstracts No.	Substance
U394	30558-43-1	A2213.
U001	75-07-0	Acetaldehyde (I)
U034	75–87–6	Acetaldehyde, trichloro-
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-
U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-
U240	194-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters
U112	141–78–6	Acetic acid ethyl ester (I)
U144	301–04–2	Acetic acid, lead(2+) salt
U214	563-68-8	Acetic acid, thallium(1+) salt
see	93–76–5	Acetic acid, (2,4,5-trichlorophenoxy)-
F027 U002	67–64–1	Acetone (I)
U002	75-05-8	Acetorie (i) Acetonitrile (I,T)
U003	98-86-2	Acetophenone
U005	53-96-3	2-Acetylaminofluorene
U006	75–36–5	Acetyl chloride (C,R,T)
U007	79–06–1	Acrylamide
U008	79–10–7	Acrylic acid (I)
U009	107–13–1	Acrylonitrile
U011	61–82–5	Amitrole
U012	62–53–3	Aniline (I,T)
U136	75–60–5	Arsinic acid, dimethyl-
U014	492–80–8	Auramine
U015 U365	115–02–6 2212–67–1	Azaserine H-Azepine-1-carbothioic acid, hexahydro-, S-ethyl ester.
U010	50-07-7	Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-
0010	00 01 1	hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]-
U280	101–27–9	Barban.
U278	22781-23-3	Bendiocarb.
U364	22961–82–6	Bendiocarb phenol.
U271	17804–35–2	Benomyl.
U157	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-
U016 U017	225–51–4 98–87–3	Benz[c]acridine Benzal chloride
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-
U018	56-55-3	Benz[a]anthracene
U094	57–97–6	Benz[a]anthracene, 7,12-dimethyl-
U012	62-53-3	Benzenamine (I,T)
U014	492-80-8	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-
U049	3165–93–3	Benzenamine, 4-chloro-2-methyl-, hydrochloride
U093	60–11–7	Benzenamine, N,N-dimethyl-4-(phenylazo)-
U328	95–53–4	Benzenamine, 2-methyl-
U353	106-49-0	Benzenamine, 4-methyl-
U158 U222	101–14–4 636–21–5	Benzenamine, 4,4'-methylenebis[2-chloro- Benzenamine, 2-methyl-, hydrochloride
U181	99–55–8	Benzenamine, 2-methyl-5-nitro-
U019	71–43–2	Benzene (I,T)
U038	510–15–6	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester
U030	101-55-3	Benzene, 1-bromo-4-phenoxy-
U035	305-03-3	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-
U037	108–90–7	Benzene, chloro-
U221	25376-45-8	Benzenediamine, ar-methyl-
U028	117–81–7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
U069	84–74–2 84–66–2	1,2-Benzenedicarboxylic acid, dibutyl ester
U088 U102		1,2-Benzenedicarboxylic acid, diethyl ester 1,2-Benzenedicarboxylic acid, dimethyl ester
0102	11-3	1,2 Donzonousandoxyne dote, dimetriyi ester

Hazard-							
ous	Chemical ab-	Substance					
waste	stracts No.	Substance					
No.							
U107	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester					
U070	95–50–1	Benzene, 1,2-dichloro-					
U071	541–73–1	Benzene, 1,3-dichloro-					
U072	106–46–7	Benzene, 1,4-dichloro-					
U060	72–54–8	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-					
U017	98–87–3	Benzene, (dichloromethyl)-					
U223	26471–62–5	Benzene, 1,3-diisocyanatomethyl- (R,T)					
U239	1330–20–7	Benzene, dimethyl- (I,T)					
U201	108-46-3	1.3-Benzenediol					
U127	118–74–1	Benzene, hexachloro-					
U056	110-82-7	Benzene, hexahydro- (I)					
U220	108-88-3	Benzene, methyl-					
U105	121-14-2	Benzene, 1-methyl-2,4-dinitro-					
U106	606-20-2	Benzene, 2-methyl-1,3-dinitro-					
U055	98-82-8	Benzene, (1-methylethyl)- (I)					
U169	98–95–3	Benzene, nitro-					
U183	608–93–5	Benzene, pentachloro-					
U185	82–68–8	Benzene, pentachloronitro-					
U020	98-09-9	Benzenesulfonic acid chloride (C,R)					
U020	98-09-9	Benzenesulfonyl chloride (C,R)					
U207	95–94–3	Benzene, 1,2,4,5-tetrachloro-					
U061 U247	50-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-					
U023	72–43–5 98–07–7	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- methoxy- Benzene, (trichloromethyl)-					
U234	99–35–4	Benzene, 1,3,5-trinitro-					
U021	92–87–5	Benzidine					
U202	181-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts					
U278	22781–23–3	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate.					
U364	22961-82-6	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbantate.					
U203	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-					
U141	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-					
U367	1563-38-8	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-					
U090	94–58–6	1,3-Benzodioxole, 5-propyl-					
U064	189–55–9	Benzo[rst]pentaphene					
U248	¹81–81–2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations					
		of 0.3% or less					
U022	50-32-8	Benzo[a]pyrene					
U197	106–51–4	p-Benzoquinone					
U023	98-07-7	Benzotrichloride (C,R,T)					
U085	1464–53–5	2,2'-Bioxirane					
U021 U073	92–87–5 91–94–1	[1,1'-Biphenyl]-4,4'-diamine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-					
U091	119–90–4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-diamoto-					
U095	119–93–7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-					
U401	97–74–5	Bis(dimethylthiocarbamoyl) sulfide.					
U400	120–54–7	Bis(pentamethylene)thiuram tetrasulfide.					
U225	75-25-2	Bromoform					
U030	101-55-3	4-Bromophenyl phenyl ether					
U128	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-					
U172	924–16–3	1-Butanamine, N-butyl-N-nitroso-					
U031	71–36–3	1-Butanol (I)					
U159	78–93–3	2-Butanone (I,T)					
U160	1338-23-4	2-Butanone, peroxide (R,T)					
U053	4170–30–3	2-Butenal					
U074 U143	764–41–0	2-Butene, 1,4-dichloro- (I,T)					
0143	303–34–4	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy- 2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-					
		2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester,					
		[1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-					
U031	71–36–3	n-Butyl alcohol (I)					
U392	2008-41-5	Butylate.					
U136	75–60–5	Cacodylic acid					
U032	13765–19–0	Calcium chromate					
U372	10605-21-7	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester.					
U271	17804-35-2	Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester.					
U375	55406-53-6	Carbamic acid, butyl-, 3-iodo-2-propynyl ester.					
U280	101–27–9	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester.					
U238	51–79–6	Carbamic acid, ethyl ester					
U178	615–53–2	Carbamic acid, methylnitroso-, ethyl ester					
U373	122-42-9	Carbamic acid, phenyl-, 1-methylethyl ester.					
U409	23564-05-8	Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester.					
U097	79–44–7	Carbamic chloride, dimethyl-					

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Hazard- ous waste No.	Chemical abstracts No.	Substance						
U379	136–30–1	Carbamodithioic acid, dibutyl, sodium salt.						
U277	95-06-7	Carbamodithioic acid, diethyl-, 2-chloro-2-propenyl ester.						
U381	148–18–5	Carbamodithioic acid, diethyl-, sodium salt.						
J383	128-03-0	Carbamodithioic acid, dimethyl, potassium salt.						
J382	128-04-1	Carbamodithioic acid, dimethyl-, sodium salt.						
J376	144–34–3	Carbamodithioic acid, dimethyl-, tetraanhydrosulfide with orthothioselenious acid. Carbamodithioic acid, (hydroxymethyl)methyl-, monopotassium salt.						
J378 J384	51026–28–9 137–42–8	Carbamodithioic acid, (nydroxymetnyr)metnyr-, monopotassium sait. Carbamodithioic acid, methyl-, monosodium salt.						
J377	137-41-7	Carbamodithioic acid, methyl,- monopotassium salt.						
J389	2303–17–5	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester.						
J392	2008-41-5	Carbamothioic acid, bis(2-methylpropyl)-, S-ethyl ester.						
J391	1114–71–2	Carbamothioic acid, butylethyl-, S-propyl ester.						
J386	1134–23–2	Carbamothioic acid, cyclohexylethyl-, S-ethyl ester.						
J390 J387	759–94–4	Carbamothioic acid, dipropyl-, S-ethyl ester. Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester.						
J387 J385	52888–80–9 1929–77–7	Carbamothioic acid, dipropyl-, S-(prienylmetryr) ester.						
U114	1111-54-6	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters						
U062	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester						
U279	63–25–2	Carbaryl.						
J372	10605-21-7	Carbendazim.						
U367 U215	1563–38–8 6533–73–9	Carbofuran phenol. Carbonic acid, dithallium(1+) salt						
J033	353-50-4	Carbonic difluoride						
U156	79–22–1	Carbonochloridic acid, methyl ester (I,T)						
U033	353-50-4	Carbon oxyfluoride (R,T)						
U211	56-23-5	Carbon tetrachloride						
J034	75–87–6	Chloral						
U035	305-03-3	Chlorambucil						
U036 U026	57–74–9 494–03–1	Chlordane, alpha & gamma isomers						
U026 U037	108-90-7	Chlornaphazin Chlorobenzene						
U038	510-15-6	Chlorobenzilate						
U039	59-50-7	p-Chloro-m-cresol						
U042	110–75–8	2-Chloroethyl vinyl ether						
U044	67-66-3	Chloroform						
U046	107–30–2	Chloromethyl methyl ether						
U047 U048	91–58–7 95–57–8	beta-Chloronaphthalene o-Chlorophenol						
U049	3165–93–3	4-Chloro-o-toluidine, hydrochloride						
U032	13765-19-0	Chromic acid H ₂ CrO ₄ , calcium salt						
U050	218-01-9	Chrysene						
U393	137–29–1	Copper, bis(dimethylcarbamodithioato-S,S')-,						
U393	137–29–1	Copper dimethyldithiocarbamate.						
U051 U052	1319–77–3	Creosote Cresol (Cresylic acid)						
U053	4170–30–3	Crotonaldehyde						
U055	98–82–8	Cumene (I)						
U246	506-68-3	Cyanogen bromide (CN)Br						
U386	1134–23–2	Cycloate.						
U197	106-51-4	2,5-Cyclohexadiene-1,4-dione						
U056 U129	110–82–7 58–89–9	Cyclohexane (I) Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-						
U057	108-94-1	Cyclohexanone (I)						
U130	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-						
U058	50-18-0	Cyclophosphamide						
J240	194-75-7	2,4-D, salts & esters						
U059 U366	20830–81–3 533–74–4	Daunomycin Dazomet.						
U060	72–54–8	DDD						
U061	50-29-3	DDT						
U062	2303-16-4	Diallate						
U063	53-70-3	Dibenz[a,h]anthracene						
U064	189–55–9	Dibenzo[a,i]pyrene						
U066	96–12–8	1,2-Dibromo-3-chloropropane						
U069 U070	84–74–2 95–50–1	Dibutyl phthalate o-Dichlorobenzene						
U070 U071	541–73–1	m-Dichlorobenzene						
U072	106-46-7	p-Dichlorobenzene						
U073	91–94–1	3,3'-Dichlorobenzidine						
U074	764-41-0	1,4-Dichloro-2-butene (I,T)						

Hazard-		
ous waste	Chemical ab- stracts No.	Substance
No.	3114013 140.	
U075	75–71–8	Dichlorodifluoromethane
U078 U079	75–35–4 156–60–5	1,1-Dichloroethylene 1,2-Dichloroethylene
U025	111-44-4	Dichloroethyl ether
U027	108–60–1	Dichloroisopropyl ether
U024	111–91–1	Dichloromethoxy ethane
U081	120-83-2	2,4-Dichlorophenol
U082	87-65-0	2,6-Dichlorophenol
U084	542-75-6	1,3-Dichloropropene
U085	1464–53–5	1,2:3,4-Diepoxybutane (I,T)
U108 U028	123–91–1 117–81–7	1,4-Diethyleneoxide Diethylhexyl phthalate
U395	5952–26–1	Diethylene glycol, dicarbamate.
U086	1615–80–1	N,N'-Diethylhydrazine
U087	3288-58-2	O,O-Diethyl S-methyl dithiophosphate
U088	84-66-2	Diethyl phthalate
U089	56–53–1	Diethylstilbesterol
U090	94–58–6	Dihydrosafrole
U091 U092	119–90–4 124–40–3	3,3'-Dimethoxybenzidine Dimethylamine (I)
U092	60-11-7	p-Dimethylaminoazobenzene
U094	57–97–6	7,12-Dimethylbenz[a]anthracene
U095	119–93–7	3,3'-Dimethylbenzidine
U096	80–15–9	alpha,alpha-Dimethylbenzylhydroperoxide (R)
U097	79–44–7	Dimethylcarbamoyl chloride
U098 U099	57–14–7 540–73–8	1,1-Dimethylhydrazine 1,2-Dimethylhydrazine
U101	105–67–9	2,4-Dimethylphenol
U102	131–11–3	Dimethyl phthalate
U103	77–78–1	Dimethyl sulfate
U105	121–14–2	2,4-Dinitrotoluene
U106	606-20-2	2,6-Dinitrotoluene
U107 U108	117–84–0 123–91–1	Di-n-octyl phthalate 1,4-Dioxane
U109	123–91–1	1,2-Diphenylhydrazine
U110	142-84-7	Dipropylamine (I)
U111	621–64–7	Di-n-propylnitrosamine
U403	97–77–8	Disulfiram.
U390 U041	759–94–4 106–89–8	EPTC. Epichlorohydrin
U001	75-07-0	Ethanal (I)
U404	121-44-8	Ethanamine, N,N-diethyl-
U174	55–18–5	Ethanamine, N-ethyl-N-nitroso-
U155	91–80–5	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-
U067 U076	106–93–4 75–34–3	Ethane, 1,2-dibromo- Ethane, 1,1-dichloro-
U077	107-06-2	Ethane, 1,2-dichloro-
U131	67-72-1	Ethane, hexachloro-
U024	111–91–1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
U117	60–29–7	Ethane, 1,1'-oxybis-(I)
U025	111-44-4	Ethane, 1,1'-oxybis[2-chloro-
U184 U208	76–01–7 630–20–6	Ethane, pentachloro- Ethane, 1,1,1,2-tetrachloro-
U209	79–34–5	Ethane, 1,1,2,2-tetrachloro-
U218	62-55-5	Ethanethioamide
U226	71–55–6	Ethane, 1,1,1-trichloro-
U227	79-00-5	Ethane, 1,1,2-trichloro-
U410 U394	59669-26-0 30558-43-1	Ethanimidothioic acid, N,N'- [thiobis[(methylimino)carbonyloxy]]bis-, dimethyl ester Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester.
U359	110-80-5	Ethanol, 2-ethoxy-
U173	1116–54–7	Ethanol, 2,2'-(nitrosoimino)bis-
U395	5952-26-1	Ethanol, 2,2'-oxybis-, dicarbamate.
U004	98-86-2	Ethanone, 1-phenyl-
U043 U042	75–01–4 110–75–8	Ethene, chloro- Ethene, (2-chloroethoxy)-
U078	75–35–4	Ethene, 1,1-dichloro-
U079	156–60–5	Ethene, 1,2-dichloro-, (E)-
U210	127-18-4	Ethene, tetrachloro-
U228	79–01–6	Ethene, trichloro-
U112	141-78-6	Ethyl acetate (I) Ethyl acrylate (I)
U113 U238	140–88–5 51–79–6	
0200		(0.00000)

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Hazard- ous waste	Chemical abstracts No.	Substance
No.		
U117	60-29-7	Ethyl ether (I)
U114	1111-54-6	Ethylenebisdithiocarbamic acid, salts & esters
U067	106-93-4	Ethylene dibromide
U077 U359	107–06–2 110–80–5	Ethylene dichloride Ethylene glycol monoethyl ether
U115	75–21–8	Ethylene oxide (I,T)
U116	96-45-7	Ethylenethiourea
U076	75–34–3	Ethylidene dichloride
U118	97-63-2	Ethyl methacrylate
U119	62-50-0	Ethyl methanesulfonate
U407	14324-55-1	Ethyl Ziram.
U396 U120	14484–64–1 206–44–0	Ferbam. Fluoranthene
U122	50-00-0	Formaldehyde
U123	64–18–6	Formic acid (C,T)
U124	110-00-9	Furan (I)
U125	98-01-1	2-Furancarboxaldehyde (I)
U147	108–31–6	2,5-Furandione
U213	109-99-9	Furan, tetrahydro-(I)
U125 U124	98–01–1 110–00–9	Furfural (I) Furfuran (I)
U206	18883–66–4	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D-
U206	18883–66–4	D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)-carbonyl]amino]-
U126	765–34–4	Glycidylaldehyde
U163	70–25–7	Guanidine, N-methyl-N'-nitro-N-nitroso-
U127	118–74–1	Hexachlorobenzene Hexachlorobutadiene
U128 U130	87–68–3 77–47–4	Hexachlorocyclopentadiene
U131	67–72–1	Hexachloroethane
U132	70-30-4	Hexachlorophene
U243	1888–71–7	Hexachloropropene
U133	302-01-2	Hydrazine (R,T)
U086 U098	1615–80–1 57–14–7	Hydrazine, 1,2-diethyl- Hydrazine, 1,1-dimethyl-
U099	540-73-8	Hydrazine, 1,2-dimethyl-
U109	122–66–7	Hydrazine, 1,2-diphenyl-
U134	7664–39–3	Hydrofluoric acid (C,T)
U134	7664–39–3	Hydrogen fluoride (C,T)
U135 U135	7783–06–4 7783–06–4	Hydrogen sulfide Hydrogen sulfide H₂S
U096	80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl- (R)
U116	96-45-7	2-Imidazolidinethione
U137	193–39–5	Indeno[1,2,3-cd]pyrene
U375	55406-53-6	3-lodo-2-propynyl n-butylcarbamate.
U396 U190	14484–64–1 85–44–9	Iron, tris(dimethylcarbamodithioato-S,S')-, 1,3-Isobenzofurandione
U140	78–83–1	Isobutyl alcohol (I,T)
U141	120–58–1	Isosafrole
U142	143–50–0	Kepone
U143	303-34-4	Lasiocarpine
U144 U146	301–04–2 1335–32–6	Lead acetate Lead, bis(acetato-O)tetrahydroxytri-
U146	7446–27–7	Lead phosphate
U146	1335–32–6	Lead subacetate
U129	58-89-9	Lindane
U163	70–25–7	MNNG
U147	108–31–6	Maleic anhydride
U148 U149	123–33–1 109–77–3	Maleic hydrazide Malononitrile
U150	148-82-3	Melphalan
U151	7439–97–6	Mercury
U384	137-42-8	Metam Sodium.
U152	126-98-7	Methacrylonitrile (I, T)
U092	124–40–3	Methanamine, N-methyl- (I) Methane, bromo-
U029 U045	74–83–9 74–87–3	Methane, chloro- (I, T)
U046	107–30–2	Methane, chloromethoxy-
U068	74–95–3	Methane, dibromo-
U080 U075	75-09-2	Methane, dichloro-
	75-71-8	Methane, dichlorodifluoro-

Hazard-							
ous	Chemical ab-	Substance					
waste	stracts No.	Cassaniss					
No.							
U119	62-50-0	Methanesulfonic acid, ethyl ester					
U211	56-23-5	Methane, tetrachloro-					
U153	74–93–1	Methanethiol (I, T)					
U225	75–25–2	Methane, tribromo-					
U044	67–66–3	Methane, trichloro-					
U121	75-69-4	Methane, trichlorofluoro-					
U036	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-					
U154	67-56-1	Methanol (I)					
U155	91-80-5	Methapyrilene					
U142	143-50-0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-					
U247	72-43-5	Methoxychlor					
U154	67-56-1	Methyl alcohol (I)					
U029	74–83–9	Methyl bromide					
U186	504-60-9	1-Methylbutadiene (I)					
U045	74-87-3	Methyl chloride (I,T)					
U156	79–22–1	Methyl chlorocarbonate (I,T)					
U226	71–55–6	Methyl chloroform					
U157	56-49-5	3-Methylcholanthrene					
U158	101–14–4	4,4'-Methylenebis(2-chloroaniline)					
U068	74–95–3	Methylene bromide					
U080 U159	75–09–2 78–93–3	Methylene chloride Methyl ethyl ketone (MEK) (I,T)					
U160	1338-23-4	Methyl ethyl ketone (MEK) (1,1) Methyl ethyl ketone peroxide (R,T)					
U138	74–88–4	Methyl iodide					
U161	108-10-1	Methyl isobutyl ketone (I)					
U162	80–62–6	Methyl methacrylate (I,T)					
U161	108-10-1	4-Methyl-2-pentanone (I)					
U164	56-04-2	Methylthiouracil					
U010	50-07-7	Mitomycin C					
U365	2212-67-1	Molinate.					
U059	20830-81-3	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-					
		7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-					
U167	134-32-7	1-Naphthalenamine					
U168	91-59-8	2-Naphthalenamine					
U026	494-03-1	Naphthalenamine, N,N'-bis(2-chloroethyl)-					
U165	91-20-3	Naphthalene					
U047	91–58–7	Naphthalene, 2-chloro-					
U166	130–15–4	1,4-Naphthalenedione					
U236	72–57–1	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-					
		dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy]-, tetrasodium salt					
U279	63-25-2	1-Naphthalenol, methylcarbamate.					
U166	130-15-4	1,4-Naphthoquinone					
U167 U168	134–32–7 91–59–8	alpha-Naphthylamine					
U217	10102-45-1	beta-Naphthylamine					
U169	98-95-3	Nitric acid, thallium(1+) salt Nitrobenzene (I,T)					
U170	100-02-7	p-Nitrophenol					
U171	79–46–9	2-Nitropropane (I,T)					
U172	924–16–3	N-Nitrosodi-n-butylamine					
U173	1116–54–7	N-Nitrosodiethanolamine					
U174	55–18–5	N-Nitrosodiethylamine					
U176	759-73-9	N-Nitroso-N-ethylurea					
U177	684-93-5	N-Nitroso-N-methylurea					
U178	615-53-2	N-Nitroso-N-methylurethane					
U179	100-75-4	N-Nitrosopiperidine					
U180	930-55-2	N-Nitrosopyrrolidine					
U181	99–55–8	5-Nitro-o-toluidine					
U193	1120-71-4	1,2-Oxathiolane, 2,2-dioxide					
U058	50–18–0	2H-1,3,2-Oxazaphosphorin-2-amine,					
	75.04.0	N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide					
U115	75–21–8	Oxirane (I,T)					
U126	765–34–4	Oxiranecarboxyaldehyde Oxirane, (chloromethyl)-					
U041 2	106-89-8						
2 U391	123–63–7 1114–71–2	Paraldehyde Pebulate.					
U183	608-93-5	Pentachlorobenzene					
U184	76-01-7	Pentachloroethane					
U185	82–68–8	Pentachloronitrobenzene (PCNB)					
See	87–86–5	Pentachlorophenol					
F027	2. 00 0						
U161	108-10-1	Pentanol, 4-methyl-					
U186	504-60-9						

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Hazard-		
ous waste	Chemical ab- stracts No.	Substance
No.	Silacis NO.	
U187	62–44–2	Phenacetin
U188	108-95-2	Phenol
U048	95–57–8	Phenol, 2-chloro-
U039	59-50-7	Phenol, 4-chloro-3-methyl-
U081	120-83-2	Phenol, 2,4-dichloro-
U082 U089	87–65–0 56–53–1	Phenol, 2,6-dichloro- Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-
U101	105–67–9	Phenol, 2,4-dimethyl-
U052	1319–77–3	Phenol, methyl-
U132	70–30–4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-
U411	114-26-1	Phenol, 2-(1-methylethoxy)-, methylcarbamate.
U170 See	100–02–7 87–86–5	Phenol, 4-nitro- Phenol, pentachloro-
F027	07-00-3	Therior, periadilloro-
See	58-90-2	Phenol, 2,3,4,6-tetrachloro-
F027		
See F027	95–95–4	Phenol, 2,4,5-trichloro-
See	88-06-2	Phenol, 2,4,6-trichloro-
F027	-3 00 2	
U150	148-82-3	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-
U145	7446–27–7	Phosphoric acid, lead(2+) salt (2:3)
U087 U189	3288–58–2 1314–80–3	Phosphorodithioic acid, O,O-diethyl S-methyl ester Phosphorus sulfide (R)
U190	85-44-9	Phthalic anhydride
U191	109–06–8	2-Picoline
U179	100-75-4	Piperidine, 1-nitroso-
U400 U383	120–54–7 128–03–0	Piperidine, 1,1'-(tetrathiodicarbonothioyl)-bis- Potassium dimethyldithiocarbamate.
U378	51026–28–9	Potassium n-hydroxymethyl- n-methyldi-thiocarbamate.
U377	137–41–7	Potassium n-methyldithiocarbamate.
U192	23950-58-5	Pronamide
U194 U111	107–10–8	1-Propanamine (I,T) 1-Propanamine, N-nitroso-N-propyl-
U110	621–64–7 142–84–7	1-Propanamine, N-propyl- (I)
U066	96–12–8	Propane, 1,2-dibromo-3-chloro-
U083	78–87–5	Propane, 1,2-dichloro-
U149	109-77-3	Propanedinitrile
U171 U027	79–46–9 108–60–1	Propane, 2-nitro- (I,T) Propane, 2,2'-oxybis[2-chloro-
U193	1120-71-4	1,3-Propane sultone
See	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-
F027		
U235	126-72-7	1-Propanol, 2,3-dibromo-, phosphate (3:1)
U140 U002	78–83–1 67–64–1	1-Propanol, 2-methyl- (I,T) 2-Propanone (I)
U007	79–06–1	2-Propenamide
U084	542-75-6	1-Propene, 1,3-dichloro-
U243	1888–71–7	1-Propene, 1,1,2,3,3,3-hexachloro-
U009 U152	107–13–1 126–98–7	2-Propenenitrile 2-Propenenitrile, 2-methyl- (I,T)
U008	79–10–7	2-Propenoic acid (I)
U113	140–88–5	2-Propenoic acid, ethyl ester (I)
U118	97–63–2	2-Propenoic acid, 2-methyl-, ethyl ester
U162 U373	80–62–6 122–42–9	2-Propenoic acid, 2-methyl-, methyl ester (I,T) Propham.
U411	114-26-1	Propoxur.
U387	52888-80-9	Prosulfocarb.
U194	107–10–8	
U083	78–87–5	Propylene dichloride
U148 U196	123–33–1 110–86–1	3,6-Pyridazinedione, 1,2-dihydro- Pyridine
U191	109–06–8	Pyridine, 2-methyl-
U237	66–75–1	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-
11164	EC 04 0	chloroethyl)amino]-
U164 U180	56-04-2 930-55-2	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo- Pyrrolidine, 1-nitroso-
U200	50-55-5	Reserpine
U201	108-46-3	Resorcinol
U202	181-07-2	Saccharin, & salts
U203 U204	94–59–7 7783–00–8	Safrole Selenious acid
0204	1100-00-8	1 Ocienious aciu

Hazard- ous waste	Substance Substance					
No.						
U204	7783-00-8	Selenium dioxide				
U205	7488–56–4	Selenium sulfide				
U205	7488–56–4	Selenium sulfide SeS ₂ (R,T)				
U376	144–34–3	Selenium, tetrakis(dimethyldithiocarbamate).				
U015	115–02–6	L-Serine, diazoacetate (ester)				
See	93–72–1	Silvex (2,4,5-TP)				
F027						
U379	136–30–1	Sodium dibutyldithiocarbamate.				
U381	148–18–5	Sodium diethyldithiocarbamate.				
U382	128-04-1	Sodium dimethyldithiocarbamate.				
U206	18883-66-4	Streptozotocin				
U103 U277	77–78–1	Sulfuric acid, dimethyl ester				
U189	95–06–7 1314–80–3	Sulfallate. Sulfur phosphide (R)				
See	93–76–5	2,4,5-T				
F027	35-70-3	۵٫۳٫۵۰۱				
U402	1634-02-2	Tetrabutylthiuram disulfide.				
U207	95-94-3	1,2,4,5-Tetrachlorobenzene				
U208	630–20–6	1,1,1,2-Tetrachloroethane				
U209	79–34–5	1,1,2,2-Tetrachloroethane				
U210	127-18-4	Tetrachloroethylene				
See	58-90-2	2,3,4,6-Tetrachlorophenol				
F027						
U213	109–99–9	Tetrahydrofuran (I)				
U401	97–74–5	Tetramethylthiuram monosulfide.				
U214	563-68-8	Thallium(I) acetate				
U215	6533–73–9	Thallium(I) carbonate				
U216	7791–12–0	Thallium(I) chloride				
U216	7791–12–0	Thallium chloride Tlcl				
U217	10102-45-1	Thallium(I) nitrate				
U366 U218	533–74–4 62–55–5	2H-1,3,5-Thiadiazine- 2-thione, tetrahydro-3,5-dimethyl- Thioacetamide				
U410	59669-26-0	Thiodicarb.				
U153	74–93–1	Thiomethanol (I,T)				
U244	137–26–8	Thioperoxydicarbonic diamide $[(H_2N)C(S)]_2S_2$, tetramethyl-				
U402	1634-02-2	Thioperoxydicarbonic diamide, tetrabutyl.				
U403	97–77–8	Thioperoxydicarbonic diamide, tetraethyl.				
U409	23564-05-8	Thiophanate-methyl.				
U219	62–56–6	Thiourea				
U244	137–26–8	Thiram				
U220	108-88-3	Toluene				
U221	25376-45-8	Toluenediamine				
U223	26471–62–5	Toluene diisocyanate (R,T)				
U328	95-53-4	o-Toluidine				
U353 U222	106–49–0 636–21–5	p-Toluidine o-Toluidine hydrochloride				
U222 U389	2303-17-5	Triallate.				
U011	61-82-5	1H-1,2,4-Triazol-3-amine				
U227	79-00-5	1,1,2-Trichloroethane				
U228	79-01-6	Trichloroethylene				
U121	75–69–4	Trichloromonofluoromethane				
See	95–95–4	2,4,5-Trichlorophenol				
F027						
See	88-06-2	2,4,6-Trichlorophenol				
F027						
U404	121–44–8	Triethylamine.				
U234	99–35–4	1,3,5-Trinitrobenzene (R,T)				
U182	123–63–7	1,3,5-Trioxane, 2,4,6-trimethyl-				
U235	126–72–7	Tris(2,3-dibromopropyl) phosphate				
U236	72–57–1	Trypan blue				
U237	66–75–1	Uracil mustard				
U176	759–73–9	Urea, N-ethyl-N-nitroso-				
U177	684-93-5	Urea, N-methyl-N-nitroso-				
U385	1929-77-7	Vernolate.				
U043	75-01-4	Vinyl chloride				
U248	181-81-2	Warfarin, & salts, when present at concentrations of 0.3% or less				
U239 U200	1330–20–7 50–55–5	Xylene (I) Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,				
0200	30-33-5	(3beta,16beta,17alpha,18beta,20alpha)-				
U407	14324–55–1	Zinc, bis(diethylcarbamodithioato-S,S')-				
	1314-84-7	Zinc, bis(detrylcarbanioutilioato-3,3)- Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less				

¹ CAS Number given for parent compound only.

[45 FR 78529, 78541, Nov. 25, 1980]

Editorial Note: For Federal Register citations affecting §261.33, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 261.35 Deletion of certain hazardous waste codes following equipment cleaning and replacement.

- (a) Wastes from wood preserving processes at plants that do not resume or initiate use of chlorophenolic preservatives will not meet the listing definition of F032 once the generator has met all of the requirements of paragraphs (b) and (c) of this section. These wastes may, however, continue to meet another hazardous waste listing description or may exhibit one or more of the hazardous waste characteristics.
- (b) Generators must either clean or replace all process equipment that may come into contact chlorophenolic formulations or constituents thereof, including, but not limited to, treatment cylinders, sumps, tanks, piping systems, drip pads, fork lifts, and trams, in a manner that minimizes or eliminates the escape of hazardous waste or constituents, leachate, contaminated drippage, or hazardous waste decomposition products to the ground water, surface water, or atmosphere.
- (1) Generators shall do one of the following:
- (i) Prepare and follow an equipment cleaning plan and clean equipment in accordance with this section;
- (ii) Prepare and follow an equipment replacement plan and replace equipment in accordance with this section; or
- (iii) Document cleaning and replacement in accordance with this section, carried out after termination of use of chlorophenolic preservations.
 - (2) Cleaning Requirements.
- (i) Prepare and sign a written equipment cleaning plan that describes:
 - (A) The equipment to be cleaned;
- (B) How the equipment will be cleaned;
- (C) The solvent to be used in cleaning;
- (D) How solvent rinses will be tested; and
- (E) How cleaning residues will be disposed.

- (ii) Equipment must be cleaned as follows:
- (A) Remove all visible residues from process equipment;
- (B) Rinse process equipment with an appropriate solvent until dioxins and dibenzofurans are not detected in the final solvent rinse.
 - (iii) Analytical requirements.
- (A) Rinses must be tested in accordance with SW-846, Method 8290.
- (B) "Not detected" means at or below the lower method calibration limit (MCL) in Method 8290, Table 1.
- (iv) The generator must manage all residues from the cleaning process as F032 waste.
 - (3) Replacement requirements.
- (i) Prepare and sign a written equipment replacement plan that describes:
- (A) The equipment to be replaced;
- (B) How the equipment will be replaced; and
- (C) How the equipment will be disposed.
- (ii) The generator must manage the discarded equipment as F032 waste.
 - (4) Documentation requirements.
- (i) Document that previous equipment cleaning and/or replacement was performed in accordance with this section and occurred after cessation of use of chlorophenolic preservatives.
- (c) The generator must maintain the following records documenting the cleaning and replacement as part of the facility's operating record:
- (1) The name and address of the facility;
- (2) Formulations previously used and the date on which their use ceased in each process at the plant;
- (3) Formulations currently used in each process at the plant;
- (4) The equipment cleaning or replacement plan;
- (5) The name and address of any persons who conducted the cleaning and replacement;
- (6) The dates on which cleaning and replacement were accomplished;
 - (7) The dates of sampling and testing;

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- (8) A description of the sample handling and preparation techniques, including techniques used for extraction, containerization, preservation, and chain-of-custody of the samples;
- (9) A description of the tests performed, the date the tests were performed, and the results of the tests;
- (10) The name and model numbers of the instrument(s) used in performing the tests:
 - (11) QA/QC documentation; and
- (12) The following statement signed by the generator or his authorized representative:

I certify under penalty of law that all process equipment required to be cleaned or replaced under 40 CFR 261.35 was cleaned or replaced as represented in the equipment cleaning and replacement plan and accompanying documentation. I am aware that there are significant penalties for providing false information, including the possibility of fine or imprisonment.

 $[55\ FR\ 50482,\ Dec.\ 6,\ 1990,\ as\ amended\ at\ 56\ FR\ 30195,\ July\ 1,\ 1991]$

APPENDICES TO PART 261

APPENDIX I TO PART 261— REPRESENTATIVE SAMPLING METHODS

The methods and equipment used for sampling waste materials will vary with the form and consistency of the waste materials to be sampled. Samples collected using the sampling protocols listed below, for sampling waste with properties similar to the indicated materials, will be considered by the Agency to be representative of the waste.

Extremely viscous liquid—ASTM Standard D140-70 Crushed or powdered material—ASTM Standard D346-75 Soil or rock-like material—ASTM Standard D420-69 Soil-like material—ASTM Standard D1452-65

Fly Ash-like material—ASTM Standard D2234-76 [ASTM Standards are available from ASTM, 1916 Race St., Philadelphia, PA 19103]

Containerized liquid wastes—"COLIWASA" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," ^{1a} U.S. Environmental Protection Agency, Office of Solid Waste, Washington, DC 20460. [Copies may be obtained from Solid Waste Information, U.S. Envi-

ronmental Protection Agency, 26 W. St. Clair St., Cincinnati, Ohio 45268]

Liquid waste in pits, ponds, lagoons, and similar reservoirs.—"Pond Sampler" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods." 1 Ia

This manual also contains additional information on application of these protocols.

APPENDIX II TO PART 261—METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

Note: The TCLP (Method 1311) is published in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in §260.11 of this chapter.

[58 FR 46049, Aug. 31, 1993]

APPENDIX III TO PART 261—CHEMICAL ANALYSIS TEST METHODS

Note: Appropriate analytical procedures to determine whether a sample contains a given toxic constituent are specified in Chapter Two, "Choosing the Correct Procedure" found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in §260.11 of this chapter. Prior to final sampling and analysis method selection, the individual should consult the specific section or method described in SW-846 for additional guidance on which of the approved methods should be employed for a specific sample analysis situation.

[58 FR 46049, Aug. 31, 1993]

APPENDIX IV TO PART 261—[RESERVED FOR RADIOACTIVE WASTE TEST METHODS]

APPENDIX V TO PART 261—[RESERVED FOR INFECTIOUS WASTE TREATMENT SPECIFICATIONS]

APPENDIX VI TO PART 261—[RESERVED FOR ETIOLOGIC AGENTS]

APPENDIX VII TO PART 261—BASIS FOR LISTING HAZARDOUS WASTE

EPA hazard- ous waste No.	Hazardous constituents for which listed				
F001	Tetrachloroethylene, methylene chloride trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons.				

 $^{^{1}a} These$ methods are also described in "Samplers and Sampling Procedures for Hazardous Waste Streams," EPA 600/2–80–018, January 1980.

EPA hazard- ous waste No.	Hazardous constituents for which listed	EPA hazard- ous waste No.	Hazardous constituents for which listed
F002	Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trichfluoroethane, ortho-dichlorobenzene, trichloroffluoromethane.	F027	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.
F003		F028	Tetra-, penta-, and hexachlorodibenzo-p-dioxins;
F004			tetra-, penta-, and hexachlorodibenzofurans; tri-,
F005			tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.
F006	(complexed).	F032	Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)- anthracene, indeno(1,2,3-cd)pyrene,
F007	, , ,		pentachlorophenol, arsenic, chromium, tetra-,
F008	, , ,		penta-, hexa-, heptachlorodibenzo-p-dioxins,
F009	, , ,	E024	tetra-, penta-, hexa-, heptachlorodibenzofurans.
F010	, , ,	F034	Benz(a)anthracene, benzo(k)fluoranthene, dibenz(a,h)anthracene,
F011	, , ,		benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic,
F012			chromium.
F019		F035	Arsenic, chromium, lead.
F020	pentachlorodi-benzofurans; tri- and	F037	Benzene, benzo(a)pyrene, chrysene, lead, chromium.
	tetrachlorophenols and their chlorophenoxy de- rivative acids, esters, ethers, amine and other salts.	F038	Benzene, benzo(a)pyrene chrysene, lead, chromium.
F021	Penta- and hexachlorodibenzo-p-dioxins; penta-	F039	All constituents for which treatment standards are
1021	and hexachlorodibenzofurans:		specified for multi-source leachate (wastewaters
	pentachlorophenol and its derivatives.		and nonwastewaters) under 40 CFR 268.43(a),
F022		K001	Table CCW. Pentachlorophenol, phenol, 2-chlorophenol, p-
F023	Tetra-, and pentachlorodibenzo-p-dioxins; tetra- and pentachlorodibenzofurans; tri- and tetrachlorophenols and their chlorophenoxy de- rivative acids, esters, ethers, amine and other		chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, cresosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(d)pyrene,
F024			indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene.
	methane, carbon tetrachloride, chloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, trans-1-	K002	Hexavalent chromium, lead
	2-dichloroethylene, 1,1-dichloroethylene, 1,1,1-	K003	Hexavalent chromium, lead.
	trichloroethane, 1,1,2-trichloroethane,	K004	Hexavalent chromium.
	trichloroethylene, 1,1,1,2-tetra-chloroethane,	K005	Hexavalent chromium, lead.
	1,1,2,2-tetrachloroethane, tetrachloroethylene,		, and the second
	pentachloroethane, hexachloroethane, allyl chlo-	K006	Hexavalent chromium.
	ride (3-chloropropene), dichloropropane,	K007	Cyanide (complexed), hexavalent chromium.
	dichloropropene, 2-chloro-1,3-butadiene,	K008	
	hexachloro-1,3-butadiene, hexachlorocyclopentadiene,	K009	Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid.
	hexachlorocyclohexane, benzene, chlorbenzene, dichlorobenzenes, 1,2,4-trichlorobenzene, tetrachlorobenzene,	K010	Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde.
	pentachlorobenzene, hexachlorobenzene, tolu-	K011	Acrylonitrile, acetonitrile, hydrocyanic acid.
	ene, naphthalene.	K013	Hydrocyanic acid, acrylonitrile, acetonitrile.
F025	Chloromethane; Dichloromethane; Trichloro-	K014	
	methane; Carbon tetrachloride; Chloroethylene; 1,1-Dichloroethane; 1,2-Dichloroethane; trans-	K015	Benzyl chloride, chlorobenzene, toluene, benzotrichloride.
	1,2-Dichloroethylene; 1,1-Dichloroethylene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethylene; 1,1,1,2-Tetrachloroethane;	K016	Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene.
	1,1,2,2-Tetrachloroethane; Tetrachloroethylene; Pentachloroethane; Hexachloroethane; Allyl chloride (3-Chloropropene); Dichloropropane;	K017	Epichlorodydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols.
	Dichloropropene; 2-Chloro-1,3-butadiene; Hexachloro-1,3-butadiene;	K018	1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene.
	Hexachlorocyclopentadiene; Benzene; Chlorobenzene; Dichlorobenzene; 1,2,4-Tri-	K019	Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-
	chlorobenzene; Tetrachlorobenzene; Pentachlorobenzene; Hexachlorobenzene; Toluene; Naphthalene.		tetrachloroethane and 1,1,1,2- tetrachloroethane), trichloroethylene,
F026	Tetra-, penta-, and hexachlorodibenzo- <i>p</i> -dioxins; tetra-, penta-, and hexachlorodibenzofurans.		tetrachloroethylene, carbon tetrachloride, chloro- form, vinyl chloride, vinylidene chloride.
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EPA hazard- ous waste No.	Hazardous constituents for which listed	EPA hazard- ous waste	Hazardous constituents for which listed
hazard- ous waste No.	Hazardous constituents for which listed	hazard- ous waste	Hazardous constituents for which listed
ous waste No.	Hazardous constituents for which listed	ous waste	Hazardous constituents for which listed
No.	nazardous constituents for which listed	waste	Hazardous constituents for which listed
No.			
-			
K020 E		No.	
K020 E			
	Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-	K088	Cyanide (complexes).
	trichloroethane, tetrachloroethanes (1,1,2,2-	K090	Chromium.
	tetrachloroethane and 1,1,1,2-		
		K091	Do.
	tetrachloroethane), trichloroethylene,	K093	Phthalic anhydride, maleic anhydride.
	tetrachloroethylene, carbon tetrachloride, chloro-	K094	Phthalic anhydride.
	form, vinyl chloride, vinylidene chloride.		
K004		K095	1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane,
	Antimony, carbon tetrachloride, chloroform.		1,1,2,2-tetrachloroethane.
	Phenol, tars (polycyclic aromatic hydrocarbons).	K096	1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-
K023 P	Phthalic anhydride, maleic anhydride.	11090	
K024 P	Phthalic anhydride, 1,4-naphthoquinone.		trichloroethane.
	Meta-dinitrobenzene, 2,4-dinitrotoluene.	K097	Chlordane, heptachlor.
	Paraldehyde, pyridines, 2-picoline.	K098	Toxaphene.
			· ·
	Toluene diisocyanate, toluene-2, 4-diamine.	K099	
K028 1	1,1,1-trichloroethane, vinyl chloride.	K100	Hexavalent chromium, lead, cadmium.
K029 1	1,2-dichloroethane, 1,1,1-trichloroethane, vinyl	K101	
14000	chloride, vinylidene chloride, chloroform.	K102	
K030 H	Hexachlorobenzene, hexachlorobutadiene, hexa-	K103	Aniline, nitrobenzene, phenylenediamine.
	chloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-	K104	
J	tetrachloroethane, ethylene dichloride.	K104	
K031 A	Arsenic.		phenylenediamine.
		K105	Benzene, monochlorobenzene, dichlorobenzenes,
	Hexachlorocyclopentadiene.		2,4,6-trichlorophenol.
K033 H	Hexachlorocyclopentadiene.	1/400	
K034 H	Hexachlorocyclopentadiene.	K106	
	Creosote, chrysene, naphthalene, fluoranthene	K107	1,1-Dimethylhydrazine (UDMH).
N055		K108	
	benzo(b) fluoranthene, benzo(a)pyrene,		
	indeno(1,2,3-cd) pyrene, benzo(a)anthracene,	K109	
	dibenzo(a)anthracene, acenaphthalene.	K110	1,1-Dimethylhydrazine (UDMH).
K036 T	Toluene, phosphorodithioic and phosphorothioic	K111	
1.000			
	acid esters.	K112	2,4-Toluenediamine, o-toluidine, p-toluidine, ani-
K037 T	Toluene, phosphorodithioic and phosphorothioic		line.
	acid esters.	K113	2,4-Toluenediamine, o-toluidine, p-toluidine, ani-
K038 P	Phorate, formaldehyde, phosphorodithioic and		
1.000			line.
	phosphorothioic acid esters.	K114	2,4-Toluenediamine, o-toluidine, p-toluidine.
K039 P	Phosphorodithioic and phosphorothioic acid	K115	
	esters.		*
K040 P	Phorate, formaldehyde, phosphorodithioic and	K116	Carbon tetrachloride, tetrachloroethylene, chloro-
110-10			form, phosgene.
	phosphorothioic acid esters.	K117	Ethylene dibromide.
	Toxaphene.	K118	
K042 H	Hexachlorobenzene, ortho-dichlorobenzene.		
K043 2	2,4-dichlorophenol, 2,6-dichlorophenol, 2,4,6-	K123	Ethylene thiourea.
	trichlorophenol.	K124	Ethylene thiourea.
1/044		K125	
-	N.A.		
K045 N	N.A.	K126	Ethylene thiourea.
K046 L	_ead.	K131	Dimethyl sulfate, methyl bromide.
	N.A.	K132	
	Hexavalent chromium, lead.	K136	Ethylene dibromide.
	Hexavalent chromium, lead.	K141	Benzene, benz(a)anthracene, benzo(a)pyrene,
K050 H	Hexavalent chromium.		benzo(b)fluoranthene, benzo(k)fluoranthene,
	Hexavalent chromium, lead.		
	_ead.		dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
		K142	
K060 C	Cyanide, napthalene, phenolic compounds, ar-		benzo(b)fluoranthene, benzo(k)fluoranthene,
	senic.		dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
K061 H	Hexavalent chromium, lead, cadmium.	1/4.40	
	Hexavalent chromium, lead.	K143	
			benzo(b)fluoranthene, benzo(k)fluoranthene.
	ead cadmium.	K144	
K065	Do.		
K066	Do.		benzo(b)fluoranthene, benzo(k)fluoranthene,
	Hexavalent chromium, lead, cadmium.		dibenz(a,h)anthracene.
14074		K145	Benzene, benz(a)anthracene, benzo(a)pyrene,
	viercury.		
K073 C	Chloroform, carbon tetrachloride,	144.4-	dibenz(a,h)anthracene, naphthalene.
J	hexacholroethane, trichloroethane,	K147	Benzene, benz(a)anthracene, benzo(a)pyrene,
J	tetrachloroethylene, dichloroethylene, 1,1,2,2-		benzo(b)fluoranthene, benzo(k)fluoranthene,
J			dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
	tetrachloroethane.	144.40	
K083 A	Aniline, diphenylamine, nitrobenzene,	K148	Benz(a)anthracene, benzo(a)pyrene,
J	phenylenediamine.		benzo(b)fluoranthene, benzo(k)fluoranthene,
K084 A	Arsenic.		dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
		K110	
	Benzene, dichlorobenzenes, trichlorobenzenes,	K149	Benzotrichloride, benzyl chloride, chloroform,
K085 B	tetrachlorobenzenes, pentachlorobenzene,		chloromethane, chlorobenzene, 1,4-
K085 E			
K085	hexachlorobenzene, benzyl chloride		dichlorobenzene. hexachlorobenzene
	hexachlorobenzene, benzyl chloride.		dichlorobenzene, hexachlorobenzene,
K086 L	hexachlorobenzene, benzyl chloride. Lead, hexavalent chromium. Phenol, naphthalene.		dichlorobenzene, hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, toluene.

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EPA hazard- ous waste No.	Hazardous constituents for which listed
K150	Carbon tetrachloride, chloroform, chloromethane, 1,4-dichlorobenzene, hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, 1,1,2,2-tetrachloroethylene, 1,2,4-trichlorobenzene.
K151	Benzene, carbon tetrachloride, chloroform, hexachlorobenzene, pentachlorobenzene, tolu- ene, 1,2,4,5-tetrachlorobenzene, tetrachloroethylene.
K156	Benomyl, carbaryl, carbendazim, carbofuran, carbosulfan, formaldehyde, methylene chloride, triethylamine.
K157	Carbon tetrachloride, formaldehyde, methyl chloride, methylene chloride, pyridine, triethylamine.
K158	Benomyl, carbendazim, carbofuran, carbosulfan, chloroform, methylene chloride.

EPA hazard- ous waste No.	Haza	rdous cons	stituents	for which I	isted
K159	Benzene, vernolate	butylate,	eptc,	molinate,	pebulate,
K160	Benzene, vernolate	butylate,	eptc,	molinate,	pebulate,
K161	Antimony, a	arsenic, m	etam-sc	dium, ziram	١.

N.A.—Waste is hazardous because it fails the test for the characteristic of ignitability, corrosivity, or reactivity. [46 FR 4619, Jan. 16, 1981]

Editorial Note: For Federal Register citations affecting Appendix VII, part 261, see the List of CFR Sections Affected in the Finding Aids section of this volume.

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APPENDIX VIII TO PART 261—HAZARDOUS CONSTITUENTS

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
A2213	Ethanimidothioic acid, 2- (dimethylamino) -N-hydroxy-2-oxo-, methyl ester.	30558-43-1	U394
Acetonitrile	Same	75-05-8	U003
Acetophenone	Ethanone, 1-phenyl-	98–86–2	U004
2-Acetylaminefluarone	Acetamide, N-9H-fluoren-2-yl-	53-96-3	U005
Acetyl chloride	Same	75–36–5	U006
1-Acetyl-2-thiourea	Acetamide, N-(aminothioxomethyl)	591-08-2	P002
Acrolein	2-Propenal	107-02-8	P003
Acrylamide	2-Propenamide	79–06–1	U007
Acrylonitrile	2-Propenenitrile	107–13–1	U009
Aflatoxins	Same	1402–68–2	
Aldicarb	Propanal, 2-methyl-2-(methylthio)-, O- [(methylamino)carbonyl]oxime.	116-06-3	P070
Aldicarb sulfone	Propanal, 2-methyl-2- (methylsulfonyl) -, O- [(methylamino) carbonyl] oxime.	1646-88-4	P203
Aldrin	1,4,5,8- Dimethanonaphthalene, 1,2,3,4,10,10-10-	309-00-2	P004
	hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha, 8abeta)		
Allyl alcohol	2-Propen-1-ol	107–18–6	P005
Allyl chloride	1-Propane, 3-chloro	107–18–6	
Aluminum phosphide	Same	20859-73-8	P006
4-Aminobiphenyl	[1,1'-Biphenyl]-4-amine	92-67-1	
5-(Aminomethyl)-3-isoxazolol	3(2H)-Isoxazolone, 5-(aminomethyl)	2763-96-4	P007
4-Aminopyridine	4-Pyridinamine	504-24-5	P008
Amitrole	1H-1,2,4-Triazol-3-amine	61-82-5	U011
Ammonium vanadate	Vanadic acid, ammonium salt	7803-55-6	P119
Aniline	Benzenamine	62-53-3	U012
AntimonyAntimony compounds, N.O.S.1	Same	7440–36–0	
Aramite	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester.	140–57–8	
Arsenic	Same	7440–38–2	
Arsenic acid	Arsenic acid H ₃ AsO ₄	7778-39-4	P010
Arsenic pentoxide	Arsenic oxide As ₂ O ₅	1303-28-2	P011
Arsenic trioxide	Arsenic oxide As ₂ O ₃	1327-53-3	P012
Auramine	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl.	492-80-8	U014
Azaserine	L-Serine, diazoacetate (ester)	115-02-6	U015
Barban	Carbamic acid, (3-chlorophenyl) -, 4-chloro- 2-butynyl ester.	101–27–9	U280
Barium	Same	7440-39-3	
Barium compounds, N.O.S. ¹			
Barium cyanide	Same	542-62-1	P013
Bendiocarb	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate.	22781–23–3	U278
Bendiocarb phenol	1,3-Benzodioxol-4-ol, 2,2-dimethyl-,	22961–82–6 17804–35–2	U364 U271
Benz[c]acridine	Same	225-51-4	U016
Benz[a]anthracene	Same	56-55-3	U018
Benzal chloride	Benzene, (dichloromethyl)-	98–87–3	U017
Benzene	Same	71–43–2	U019
Benzenearsonic acid	Arsonic acid, phenyl-	98-05-5	
Benzidine	[1,1'-Biphenyl]-4,4 ¹-diamine	92–87–5	U021
Benzo[b]fluoranthene	Benz[e]acephenanthrylene	205-99-2	
Benzo[j]fluoranthene	Same	205-82-3	
Benzo(k)fluoranthene	Same	207-08-9	
Benzo[a]pyrene	Same	50-32-8	U022
p-Benzoquinone	2,5-Cyclohexadiene-1,4-dione	106-51-4	U197
Benzotrichloride	Benzene, (trichloromethyl)-	98-07-7	U023
Benzyl chloride	Benzene, (chloromethyl)-	100-44-7	P028
Bervllium powder	Same	7440–41–7	P015
Beryllium compounds, N.O.S. ¹	Carro	7440 41 7	
Bis (pentamethylene)-thiuram tetrasulfide	Piperidine, 1,1'-(tetrathiodicarbonothioyl)-bis-	120–54–7	U400
Bromoacetone	2-Propanone, 1-bromo	598-31-2	P017
	Methane, tribromo-	75–25–2	U225
Bromotorm			
4-Bromophenyl phenyl ether	Benzene, 1-bromo-4-phenoxy-	101–55–3	U030

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.	
Butyl benzyl phthalate	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester.	85–68–7		
Butylate	Carbamothioic acid, bis (2-methylpropyl)-, Sethyl ester.	2008-41-5	U392	
Cacodylic acid	Arsinic acid, dimethyl	75-60-5	U136	
Cadmium	Same	7440-43-9		
Cadmium compounds, N.O.S. ¹				
Calcium chromate	Chromic acid H ₂ CrO ₄ , calcium salt	13765–19–0	U032	
Calcium cyanide	Calcium cyanide Ca(CN) ₂	592-01-8	P021	
Carbaryl	1-Naphthalenol, methylcarbamate	63-25-2	U279	
Carbendazim	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester.	10605–21–7	U372	
Carbofuran	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.	1563–66–2	P127	
Carbofuran phenol	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl	1563–38–8	U367	
Carbon disulfide	Same	75–15–0	P022	
Carbon oxyfluoride	Carbonic difluoride	353-50-4	U033	
Carbon tetrachloride	Methane, tetrachloro-	56-23-5	U211	
Carbosulfan	Carbamic acid, [(dibutylamino) thio] methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester.	55285–14–8	P189	
Chloral	Acetaldehyde, trichloro-	75-87-6	U034	
Chlorambucil	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]	305-03-3	U035	
Chlordane	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8- octachloro-2,3,3a,4,7,7a-hexahydro	57–74–9	U036	
Chlordane (alpha and gamma isomers)			U036	
Chlorinated benzenes, N.O.S. ¹				
Chlorinated ethane, N.O.S. ¹				
Chlorinated fluorocarbons, N.O.S. ¹				
Chlorinated naphthalene, N.O.S. ¹				
Chlorinated phenol, N.O.S. ¹				
Chlornaphazin	Naphthalenamine, N,N'-bis(2-chloroethyl)	494-03-1	U026	
Chloroacetaldehyde	Acetaldehyde, chloro	107–20–0	P023	
Chloroalkyl ethers, N.O.S. ¹	Danasa da delas	400.47.0		
p-Chloroaniline	Benzenamine, 4-chloro-	106-47-8	P024	
Chlorobenzene	Benzene, chloro-	108-90-7	U037	
Chlorobenzilate	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester.	510–15–6	U038	
p-Chloro-m-cresol	Phenol, 4-chloro-3-methyl-	59-50-7	U039	
2-Chloroethyl vinyl ether	Ethene, (2-chloroethoxy)-	110-75-8	U042	
Chloroform	Methane, trichloro-	67–66–3	U044	
Chloromethyl methyl ether	Methane, chloromethoxy-	107–30–2	U046	
beta-Chloronaphthalene	Naphthalene, 2-chloro-	91–58–7	U047	
o-Chlorophenol	Phenol, 2-chloro-	95–57–8	U048	
1-(o-Chlorophenyl)thiourea	Thiourea, (2-chlorophenyl)-	5344-82-1	P026	
Chloroprene	1,3-Butadiene, 2-chloro-	126-99-8		
3-Chloropropionitrile	Propanenitrile, 3-chloro-	542-76-7	P027	
Chromium	Same	7440–47–3		
Chromium compounds, N.O.S. ¹	Como	210 01 0	U050	
Chrysene	Same	218-01-9		
Citius red No. 2	2-Naphthalenol, 1-[(2,5-dimethoxyphenyl)azo]	6358–53–8		
Coal tar creosote	Same	8007-45-2		
Copper cyanide	Copper cyanide CuCN	544-92-3	P029	
Copper dimethyldithiocarbamate	Copper, bis(dimethylcarbamodithioato-S,S')-,	137-29-1	U393	
Creosote	Same		U051	
Cresol (Cresylic acid)	Phenol, methyl-	1319-77-3	U052	
Crotonaldehyde	2-Butenal	4170-30-3	U053	
m-Cumenyl methylcarbamate Cyanides (soluble salts and complexes)	Phenol, 3-(methylethyl)-, methyl carbamate	64-00-6	P202 P030	
N.O.S. ¹ .	Eth and dinituile	400 40 5	Doc.	
Cyanogen	Ethanedinitrile	460–19–5	P031	
Cyanogen bromide	Cyanogen bromide (CN)Br	506-68-3	U246	
Cyanogen chloride	Cyanogen chloride (CN)CI	506-77-4	P033	
Cycasin	beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl.	14901–08–7		
Cycloate	Carbamothioic acid, cyclohexylethyl-, S-ethyl ester.	1134–23–2	U386	
2-Cyclohexyl-4,6-dinitrophenol	Phenol, 2-cyclohexyl-4,6-dinitro-	131–89–5	P034	
Cyclophosphamide	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide.	50–18–0	U058	
2,4-D	Acetic acid, (2,4-dichlorophenoxy)	94–75–7	U240	

Common name	Chemical abstracts name	Chemical ab- stracts No.	Hazardous waste No.
2,4-D, salts, esters			U240
Daunomycin	5,12-Naphthacenedione, 8-acetyl-10-[(3-	20830-81-3	U059
	amino-2,3,6-trideoxy-alpha-L-lyxo-		
	hexopyranosyl)oxy]-7,8,9,10-tetrahydro- 6,8,11-trihydroxy-1-methoxy-, (8S-cis)		
Dazomet	2H-1,3,5-thiadiazine-2-thione, tetrahydro-3,5-	533-74-4	U366
	dimethyl.		
DDD	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-	72–54–8	U060
DDE	chloro Benzene, 1,1'-(dichloroethenylidene)bis[4-	72–55–9	
	chloro	.2 00 0	
DDT	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-	50–29–3	U061
Diallate	chloro	2202 16 4	U062
Dialiate	Carbamothioic acid, bis(1-methylethyl)-, S- (2,3-dichloro-2-propenyl) ester.	2303–16–4	0002
Dibenz[a,h]acridine	Same	226-36-8	
Dibenz[a,j]acridine	Same	224-42-0	
Dibenz[a,h]anthracene7H-Dibenzo[c,g]carbazole	Same	53–70–3 194–59–2	U063
Dibenzo[a,e]pyrene	Naphtho[1,2,3,4-def]chrysene	192-65-4	
Dibenzo[a,h]pyrene	Dibenzo[b,def]chrysene	189–64–0	
Dibenzo[a,i]pyrene	Benzo[rst]pentaphene	189–55–9	U064
1,2-Dibromo-3-chloropropane Dibutyl phthalate	Propane, 1,2-dibromo-3-chloro	96–12–8 84–74–2	U066 U069
o-Dichlorobenzene	Benzene, 1,2-dichloro-	95–50–1	U070
m-Dichlorobenzene	Benzene, 1,3-dichloro	541–73–1	U071
p-Dichlorobenzene	Benzene, 1,4-dichloro-	106-46-7	U072
Dichlorobenzene, N.O.S. ¹	Benzene, dichloro	25321–22–6 91–94–1	U073
1,4-Dichloro-2-butene	2-Butene, 1,4-dichloro-	764–41–0	U074
Dichlorodifluoromethane	Methane, dichlorodifluoro-	75–71–8	U075
Dichloroethylene, N.O.S. ¹	Dichloroethylene	25323-30-2	
1,1-Dichloroethylene	Ethene, 1,1-dichloro-	75–35–4	U078
1,2-Dichloroethylene Dichloroethyl ether	Ethene, 1,2-dichlrol-, (E) Ethane, 1,1'oxybis[2-chloro	156–60–5 111–44–4	U079 U025
Dichloroisopropyl ether	Propane, 2,2'-oxybis[2-chloro-	108–60–1	U027
Dichloromethoxy ethane	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	111–91–1	U024
Dichloromethyl ether	Methane, oxybis[chloro-	542-88-1	P016
2,4-Dichlorophenol	Phenol, 2,4-dichloro-	120–83–2 87–65–0	U081 U082
Dichlorophenylarsine	Arsonous dichloride, phenyl-	696–28–6	P036
Dichloropropane, N.O.S. ¹	Propane, dichloro-	26638–19–7	
Dichloropropanol, N.O.S. ¹	Propanol, dichloro-	26545-73-3	
Dichloropropene, N.O.S. ¹	1-Propene, dichloro-	26952–23–8 542–75–6	U084
Dieldrin	2,7:3,6-Dimethanonaphth[2,3-b]oxirene,	60–57–1	P037
	3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- octahydro-,		
	(1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)		
1,2:3,4-Diepoxybutane	2,2'-Bioxirane	1464–53–5	U085
Diethylarsine	Arsine, diethyl-	692–42–2	P038
Diethylene glycol, dicarbamate	Ethanol, 2,2'-oxybis-, dicarbamate	5952–26–1 123–91–1	U395 U108
Diethylhexyl phthalate	1,2-Benzenedicarboxylic acid, bis(2-	117-81-7	U028
,·,· F	ethylhexyl) ester.		
N,N'-Diethylhydrazine	Hydrazine, 1,2-diethyl-	1615–80–1	U086
O,O-Diethyl S-methyl dithiophosphate	Phosphorodithioic acid, O,O-diethyl S-methyl	3288–58–2	U087
Diethyl-p-nitrophenyl phosphate	ester. Phosphoric acid, diethyl 4-nitrophenyl ester	311–45–5	P041
Diethyl phthalate	1,2-Benzenedicarboxylic acid, diethyl ester	84–66–2	U088
O,O-Diethyl O-pyrazinyl phosphoro-thioate	Phosphorothioic acid, O,O-diethyl O-	297–97–2	P040
Diethylstilbesterol	pyrazinyl ester. Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)	56–53–1	U089
Dihydrosafrole	1,3-Benzodioxole, 5-propyl	94–58–6	U090
Diisopropylfluorophosphate (DFP)	Phosphorofluoridic acid, bis(1-methylethyl) ester.	55–91–4	P043
Dimethoate	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester.	60–51–5	P044
3,3'-Dimethoxybenzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	119–90–4	U091
p-Dimethylaminoazobenzene	Benzenamine, N,N-dimethyl-4-(phenylazo) Benz[a]anthracene, 7,12-dimethyl	60–11–7 57–97–6	U093 U094

Common name	Chemical abstracts name	Chemical ab- stracts No.	Hazardous waste No.
3,3'-Dimethylbenzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl	119–93–7	U095
Dimethylcarbamoyl chloride	Carbamic chloride, dimethyl-	79–44–7	U097
1,1-Dimethylhydrazine	Hydrazine, 1,1-dimethyl-	57–14–7	U098
1,2-Dimethylhydrazine	Hydrazine, 1,2-dimethyl	540-73-8	U099
alpha,alpha-Dimethylphenethylamine	Benzeneethanamine, alpha,alpha-dimethyl	122-09-8	P046
2,4-Dimethylphenol	Phenol, 2,4-dimethyl-	105-67-9	U101
Dimethyl phthalate	1,2-Benzenedicarboxylic acid, dimethyl ester	131-11-3	U102
Dimethyl sulfate	Sulfuric acid, dimethyl ester	77–78–1	U103
Dimetilan	Carbamic acid, dimethyl-, 1- [(dimethylamino)	644-64-4	P191
	carbonyl]-5-methyl-1H-pyrazol-3-yl ester.		
Dinitrobenzene, N.O.S. ¹	Benzene, dinitro	25154-54-5	
4,6-Dinitro-o-cresol	Phenol, 2-methyl-4,6-dinitro	534-52-1	P047
4,6-Dinitro-o-cresol salts			P047
2,4-Dinitrophenol	Phenol, 2,4-dinitro-	51–28–5	P048
2,4-Dinitrotoluene	Benzene, 1-methyl-2,4-dinitro	121–14–2	U105
2,6-Dinitrotoluene	Benzene, 2-methyl-1,3-dinitro	606–20–2	U106
Dinoseb	Phenol, 2-(1-methylpropyl)-4,6-dinitro	88-85-7	P020
Di-n-octyl phthalate	1,2-Benzenedicarboxylic acid, dioctyl ester	117–84–0	U017
Diphenylamine	Benzenamine, N-phenyl	122-39-4	
1,2-Diphenylhydrazine	Hydrazine, 1,2-diphenyl-	122-66-7	U109
Di-n-propylnitrosamine	1-Propanamine, N-nitroso-N-propyl-	621–64–7	U111
Disulfiram	Thioperoxydicarbonic diamide, tetraethyl	97–77–8	U403
Disulfoton	Phosphorodithioic acid, O,O-diethyl S-[2-	298-04-4	P039
Dithighiumat	(ethylthio)ethyl] ester.	E44 50 7	P049
Dithiobiuret	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH	541–53–7	
Endosulfan	6,9-Methano-2,4,3-benzodioxathiepin,	115–29–7	P050
	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-		
En dethell	hexahydro-, 3-oxide.	145 70 0	Door
Endothall	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic	145–73–3	P088
Fodein	acid.	70 00 0	D0E4
Endrin	2,7:3,6-Dimethanonaphth[2,3-b]oxirene,	72–20–8	P051
	3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-		
	octa-hydro-,		
	(1aalpha,2beta,2abeta,3alpha,6alpha,		
Fordein mostabolitas	6abeta,7beta,7aalpha)		P051
Endrin metabolites	Ovirono (obloromethyl)		U041
Epichlorohydrin Epinephrine	Oxirane, (chloromethyl)	106–89–8 51–43–4	P042
Epineprinne	(methylamino)ethyl]-, (R)	31-43-4	FU42
EPTC	Carbamothioic acid, dipropyl-, S-ethyl ester	759–94–4	U390
Ethyl carbamate (urethane)	Carbamic acid, ethyl ester	51-79-6	U238
Ethyl cyanide	Propanenitrile	107–12–0	P101
Ethylenebisdithiocarbamic acid	Carbamodithioic acid, 1,2-ethanediylbis	111–54–6	U114
Ethylenebisdithiocarbamic acid, salts and	Carbamoditinolo dola, 1,2 caranearyibio		U114
esters.			0
Ethylene dibromide	Ethane, 1,2-dibromo-	106-93-4	U067
Ethylene dichloride	Ethane, 1,2-dichloro-	107-06-2	U077
Ethylene glycol monoethyl ether	Ethanol, 2-ethoxy-	110-80-5	U359
Ethyleneimine	Aziridine	151–56–4	P054
Ethylene oxide	Oxirane	75–21–8	U115
Ethylenethiourea	2-Imidazolidinethione	96-45-7	U116
Ethylidene dichloride	Ethane, 1,1-dichloro-	75–34–3	U076
Ethyl methacrylate	2-Propenoic acid, 2-methyl-, ethyl ester	97-63-2	U118
Ethyl methanesulfonate	Methanesulfonic acid, ethyl ester	62–50–0	U119
Ethyl Ziram	Zinc, bis(diethylcarbamodithioato-S,S')	14324–55–1	U407
Famphur	Phosphorothioic acid, O-[4-	52-85-7	P097
	[(dimethylamino)sulfonyl]phenyl] O,O-di-		
	methyl ester.		
Ferbam	Iron, tris(dimethylcarbamodithioat-S,S')-,	14484–64–1	U396
Fluoranthene	Same	206-44-0	U120
Fluorine	Same	7782-41-4	P056
Fluoroacetamide	Acetamide, 2-fluoro-	640–19–7	P057
Fluoroacetic acid, sodium salt	Acetic acid, fluoro-, sodium salt	62–74–8	P058
Formaldehyde	Same	50-00-0	U122
Formetanate hydrochloride	Methanimidamide, N,N-dimethyl-N'-[3- [[(methylamino) carbonyl]oxy]phenyl]-, monohydrochloride.	23422–53–9	P198
Formic acid	Same	64–18–6	U123
Formparanate	Methanimidamide, N,N-dimethyl-N'-[2-methyl-	17702-57-7	P197
i omparanate	4-[[(methylamino) carbonyl]oxy]phenyl]	11102-31-1	F 197
	Oxiranecarboxyaldehyde	765–34–4	U126
Glycidylaldehyde			0120
Glycidylaldehyde	, ,		
Glycidylaldehyde	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-	76–44–8	P059

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.	
Heptachlor epoxide	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a- hexa- (1aalpha,1bbeta,2alpha,5alpha, 5abeta,6beta,6aalpha)	1024–57–3		
Heptachlor epoxide (alpha, beta, and gamma isomers).				
Heptachlorodibenzofurans				
Heptachlorodibenzo-p-dioxins	Damaga hayashlara	440.74.4		
Hexachlorobutadiene	Benzene, hexachloro	118–74–1 87–68–3	U127 U128	
Hexachlorocyclopentadiene	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	77-47-4	U130	
Hexachlorodibenzo-p-dioxins	1,0 0,000,000,000,000,000		0.00	
Hexachlorodibenzofurans				
Hexachloroethane	Ethane, hexachloro	67-72-1	U131	
Hexachlorophene	Phenol, 2,2'-methylenebis[3,4,6-trichloro	70-30-4	U132	
Hexachloropropene	1-Propene, 1,1,2,3,3,3-hexachloro	1888–71–7	U243	
Hexaethyl tetraphosphate	Tetraphosphoric acid, hexaethyl ester	757–58–4 302–01–2	P062 U133	
Hydrogen cyanide	Hydrocyanic acid	74–90–8	P063	
Hydrogen fluoride	Hydrofluoric acid	7664–39–3	U134	
Hydrogen sulfide	Hydrogen sulfide H ₂ S	7783-06-4	U135	
3-lodo-2-propynyl n-butylcarbamate	Carbamic acid, butyl-, 3-iodo-2-propynyl ester.	55406–53–6	U375	
Indeno[1,2,3-cd]pyrene	Same	193–39–5	U137	
Isobutyl alcohol	1-Propanol, 2-methyl-	78–83–1	U140	
Isodrin	1,4,5,8- Dimethanonaphthalene, 1,2,3,4,10,10- hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta, 8beta,8abeta)-	465–73–6	P060	
Isolan	Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester.	119–38–0	P192	
Isosafrole	1,3-Benzodioxole, 5-(1-propenyl)	120-58-1	U141	
Kepone	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2- one, 1,1a,3,3a,4,5,5,5a,5b,6- decachlorooctahydro	143–50–0	U142	
Lasiocarpine	2-Butenoic acid, 2-methyl-,7-[[2,3-dihydroxy- 2-(1-methoxyethyl)-3-methyl-1- oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H- pyrrolizin-1-yl ester, [1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-	303–34–1	4143	
Lead	Same	7439–92–1		
Lead compounds, N.O.S. ¹				
Lead acetate	Acetic acid, lead(2+) salt	301-04-2	U144	
Lead phosphate Lead subacetate	Phosphoric acid, lead(2+) salt (2:3) Lead, bis(acetato-O)tetrahydroxytri	7446–27–7 1335–32–6	U145 U146	
Lindane	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha, 5alpha,6beta)	58–89–9	U129	
Maleic anhydride	2,5-Furandione	108–31–6	U147	
Maleic hydrazide	3,6-Pyridazinedione, 1,2-dihydro	123–33–1	U148	
Malononitrile	Propanedinitrile	109–77–3	U149	
Manganese dimethyldithiocarbamate	Manganese, bis(dimethylcarbamodithioato- S,S')-,.	15339–36–3	P196	
Melphalan	L-Phenylalanine, 4-[bis(2-chloroethyl)aminol]-	148–82–3 7439–97–6	U150	
Mercury compounds N.O.S.I.	Same		U151	
Mercury fulminate	Fulminic acid, mercury(2+) salt	628–86–4	P065	
Metam Sodium	Carbamodithioic acid, methyl-, monosodium salt.	137-42-8	U384	
Methacrylonitrile	2-Propenenitrile, 2-methyl	126–98–7 91–80–5	U152 U155	
Methiocarb	pyridinyl-N'-(2-thienylmethyl) Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate.	2032–65–7	P199	
Methomyl	Ethanimidothioic acid, N- [[(methylamino)carbonyl]oxy]-, methyl ester.	16752–77–5	P066	
Methoxychlor	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy	72–43–5	U247	
Methyl bromide	Methane, bromo-	74-83-9	U029	
Methyl chloride	Methane, chloro-	74–87–3	U045	
Methyl chlorocarbonate	Carbonochloridic acid, methyl ester	79–22–1	U156	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Methyl chloroform	Ethane, 1,1,1-trichloro	71–55–6	U226
3-Methylcholanthrene	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl	56-49-5	U157
4,4'-Methylenebis(2-chloroaniline)	Benzenamine, 4,4'-methylenebis[2-chloro	101–14–4	U158
Methylene bromide	Methane, dibromo-	74–95–3	U068
Methylene chloride	Methane, dichloro-	75-09-2	U080
Methyl ethyl ketone (MEK)	2-Butanone	78-93-3	U159
Methyl ethyl ketone peroxide	2-Butanone, peroxide	1338-23-4	U160
Methyl hydrazine	Hydrazine, methyl	60-34-4	P068
Methyl iodide	Methane, iodo-	74-88-4	U138
Methyl isocyanate	Methane, isocyanato	624-83-9	P064
2-Methyllactonitrile	Propanenitrile, 2-hydroxy-2-methyl	75–86–5	P069
Methyl methacrylate	2-Propenoic acid, 2-methyl-, methyl ester	80-62-6	U162
Methyl methanesulfonate	Methanesulfonic acid, methyl ester	66-27-3	
Methyl parathion	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester.	298-00-0	P071
Methylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo	56-04-2	U164
Metolcarb	Carbamic acid, methyl-, 3-methylphenyl ester	1129–41–5	P190
Mexacarbate	Phenol, 4-(dimethylamino)-3,5-dimethyl-,	315-18-4	P128
	methylcarbamate (ester).		
Mitomycin C	Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7- dione.	50–07–7	U010
	6-amino-8-[[(aminocarbonyl)oxy]methyl]-		
	1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-		
MANAG	(1aalpha,8beta,8aalpha,8balpha)]	70.05.7	11400
MNNG	Guanidine, N-methyl-N'-nitro-N-nitroso	70–25–7	U163
Molinate	1H-Azepine-1-carbothioic acid, hexahydro-,	2212–67–1	U365
	S-ethyl ester.	505 00 0	
Mustard gas	Ethane, 1,1'-thiobis[2-chloro	505-60-2	
Naphthalene	Same	91–20–3	U165
1,4-Naphthoquinone	1,4-Naphthalenedione	130–15–4	U166
alpha-Naphthylamine	1-Naphthalenamine	134–32–7	U167
beta-Naphthylamine	2-Naphthalenamine	91–59–8	U168
alpha-Naphthylthiourea	Thiourea, 1-naphthalenyl	86-88-4	P072
Nickel	Same	7440-02-0	
Nickel compounds, N.O.S. ¹			
Nickel carbonyl	Nickel carbonyl Ni(CO) ₄ , (T-4)	13463-39-3	P073
Nickel cyanide	Nickel cyanide Ni(CN) ₂	557-19-7	P074
Nicotine	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)	54–11–5	P075
Nicotine salts			P075
Nitric oxide	Nitrogen oxide NO	10102-43-9	P076
p-Nitroaniline	Benzenamine, 4-nitro	100-01-6	P077
Nitrobenzene	Benzene, nitro-	98-95-3	U169
Nitrogen dioxide	Nitrogen oxide NO ₂	10102-44-0	P078
Nitrogen mustard	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-	51-75-2	1 070
-	methyl		
Nitrogen mustard, hydrochloride salt	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-	126–85–2	
Nitrogen mustard N-oxide	methyl-, N-oxide.		
Nitrogen mustard, N-oxide, hydro- chloride salt.	–		
Nitroglycerin	1,2,3-Propanetriol, trinitrate	55–63–0	P081
p-Nitrophenol	Phenol, 4-nitro-	100-02-7	U170
2-Nitropropane	Propane, 2-nitro	79–46–9	U171
Nitrosamines, N.O.S. ¹		35576-91-1D	
N-Nitrosodi-n-butylamine	1-Butanamine, N-butyl-N-nitroso	924-16-3	U172
N-Nitrosodiethanolamine	Ethanol, 2,2'-(nitrosoimino)bis	1116–54–7	U173
N-Nitrosodiethylamine	Ethanamine, N-ethyl-N-nitroso-	55–18–5	U174
N-Nitrosodimethylamine	Methanamine, N-methyl-N-nitroso	62–75–9	P082
N-Nitroso-N-ethylurea	Urea, N-ethyl-N-nitroso-	759–73–9	U176
N-Nitrosomethylethylamine	Ethanamine, N-methyl-N-nitroso-	10595–95–6	
N-Nitroso-N-methylurea	Urea, N-methyl-N-nitroso-	684–93–5	U177
N-Nitroso-N-methylurethane	Carbamic acid, methylnitroso-, ethyl ester	615–53–2	U178
	Vinylamine, N-methyl-N-nitroso-	4549-40-0	P084
	Marshaline 4 sitrees	59-89-2	
N-Nitrosomethylvinylamine		∪ 55–65–7	
N-Nitrosomorpholine	Morpholine, 4-nitroso-		
N-Nitrosomorpholine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)	16543–55–8	
N-Nitrosomorpholine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S) Piperidine, 1-nitroso	16543–55–8 100–75–4	U179
N-Nitrosomorpholine N-Nitrosonornicotine N-Nitrosopiperidine N-Nitrosopytrolidine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S) Piperidine, 1-nitroso Pyrrolidine, 1-nitroso	16543–55–8 100–75–4 930–55–2	U179 U180
N-Nitrosomorpholine N-Nitrosonornicotine N-Nitrosopyrrolidine N-Nitrosopyrrolidine N-Nitrososarcosine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)	16543–55–8 100–75–4 930–55–2 13256–22–9	U179 U180
N-Nitrosomorpholine N-Nitrosoprioritine N-Nitrosopyrrolidine N-Nitrosopsrrolidine N-Nitrososarcosine 5-Nitro-o-toluidine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)	16543–55–8 100–75–4 930–55–2 13256–22–9 99–55–8	U179 U180 U181
N-Nitrosomorpholine N-Nitrosonornicotine N-Nitrosopyrrolidine N-Nitrosopyrrolidine N-Nitrososarcosine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)	16543–55–8 100–75–4 930–55–2 13256–22–9 99–55–8 152–16–9	U179 U180 U181 P085 P087

Common name	Chemical abstracts name	Chemical ab- stracts No.	Hazardous waste No.	
Oxamyl	Ethanimidothioc acid, 2-(dimethylamino)-N- [[(methylamino)carbonyl]oxy]-2-oxo-, meth- yl ester.	23135–22–0	P194	
Paraldehyde	1,3,5-Trioxane, 2,4,6-trimethyl	123-63-7	U182	
Parathion	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester.	56–38–2	P089	
Pebulate	Carbamothioic acid, butylethyl-, S-propyl ester.	1114–71–2	U391	
Pentachlorodinanza n diavina	Benzene, pentachloro-	608–93–5	U183	
Pentachlorodibenzo-p-dioxins				
Pentachlorodibenzofurans Pentachloroethane	Ethane, pentachloro-	76–01–7	U184	
Pentachloronitrobenzene (PCNB)		82–68–8	U185	
Pentachlorophenol	Benzene, pentachloronitro	87–86–5	See F027	
Phenacetin	Acetamide, N-(4-ethoxyphenyl)-	62-44-2	U187	
Phenol	Same	108-95-2	U187	
	Benzenediamine			
Phenylmorousy apotato		25265-76-3	P092	
Phenylmercury acetate	Mercury, (acetato-O)phenyl-	62–38–4		
Phenylthiourea	Thiourea, phenyl Carbonic dichloride	103-85-5	P093 P095	
PhospenePhosphine	Same	75–44–5 7803–51–2	P095 P096	
Phorate	Phosphorodithioic acid, O,O-diethyl S-	298-02-2	P096 P094	
	[(ethylthio)methyl] ester.			
Phthalic acid esters, N.O.S. ¹	4.2 look anget you diene			
Phthalic anhydride	1,3-Isobenzofurandione	85-44-9	U190	
Physostigmine	Pyrrolo[2,3-b]indol-5-01, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)	57–47–6	P204	
Physostigmine salicylate	Benzoic acid, 2-hydroxy-, compd. with (3aScis) -1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo [2,3-b]indol-5-yl	57–64–7	P188	
2-Picoline	methylcarbamate ester (1:1). Pyridine, 2-methyl-	109-06-8	U191	
Polychlorinated biphenyls, N.O.S. ¹				
Potassium cyanide	Potassium cyanide K(CN)	151–50–8	P098	
Potassium dimethyldithiocarbamate	Carbamodithioc acid, dimethyl, potassium salt.	128–03–0	U383	
Potassium hyroxymethyl-n-methyl-dithiocarbamate.	Carbamodithioc acid, (hydroxymethyl)methyl- , monopotassium salt.	51026–28–9	U378	
Potassium n-methyldithiocarbamate	Carbamodithioc acid, methyl-monopotassium salt.	137–41–7	U377	
Potassium pentachlorophenate	Pentachlorophenol, potassium salt	7778736	None	
Potassium silver cyanide	Argentate(1-), bis(cyano-C)-, potassium	506-61-6	P099	
Promecarb	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate.	2631–37–0	P201	
Pronamide	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)	23950–58–5	U192	
1,3-Propane sultone	1,2-Oxathiolane, 2,2-dioxide	1120–71–4	U193	
n-Propylamine	1-Propanamine	107-10-8	U194	
Propargyl alcohol	2-Propyn-1-ol	107–19–7	P102	
Propham	Carbamic acid, phenyl-, 1-methylethyl ester	122-42-9	U373	
Propoxur	Phenol, 2-(1-methylethoxy)-, methylcarbamate.	114–26–1	U411	
Propylene dichloride	Propane, 1,2-dichloro	78–87–5	U083	
1,2-Propylenimine	Aziridine, 2-methyl	75–55–8	P067	
Propylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-propyl-2- thioxo	51–52–5		
Prosulfocarb	Carbamothioic acid, dipropyl-, S- (phenylmethyl) ester.	52888-80-9	U387	
Pyridine	Same	110-86-1	U196	
Reserpine	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxyl-smethyl ester, (3beta, 16beta, 17alpha, 18beta, 20alpha)	50–55–5	U200	
Resorcinol	1,3-Benzenediol	108-46-3	U201	
Saccharin	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	81-07-2	U202	
Saccharin salts	1,2 Denzioeniazor e(21) ene, 1,1 diexide		U202	
Safrole	1,3-Benzodioxole, 5-(2-propenyl)	94–59–7	U203	
Selenium	Same	7782-49-2		
		2 10 2		
Selenium compounds, N.O.S. ¹				
Selenium compounds, N.O.S. ¹	Selenious acid	7783-00-8	U204	

Common name Selenium, tetrakis (dimethyl-dithiocarbamate	Chemical abstracts name	Chemical ab-	
Solonium totrakis (dimothyl-dithiocarhamato	Offerfical abstracts frame	stracts No.	Hazardous waste No.
Gelenium, tetranis (umetriyi-ditilocalbaniate	Carbamodithioic acid, dimethyl-, tetraanhydrosulfide with orthothioselenious acid.	144–34–3	U376
Selenourea		630-10-4	P103
Silver	Same	7440-22-4	
Silver compounds, N.O.S. ¹			
Silver cyanide		506-64-9	P104
Silvex (2,4,5-TP)	Propanoic acid, 2-(2,4,5-trichlorophenoxy)	93–72–1	See F027
Sodium cyanide	Sodium cyanide Na(CN)	143–33–9	P106
Sodium dibutyldithiocarbamate Sodium diethyldithiocarbamate		136–30–1 148–18–5	U379 U381
Sodium direthyldithiocarbamate	Carbamodithioic acid, direthyl-, sodium salt	128-04-1	U382
Sodium pentachlorophenate		131522	None
Streptozotocin	D-Glucose, 2-deoxy-2- [[(methylnitrosoamino)carbonyl]amino]	18883–66–4	U206
Strychnine	Strychnidin-10-one	57–24–9	P108
Strychnine salts			P108
Sulfallate	propenyl ester.	95-06-7	U277
TCDD Tetrabutylthiuram disulfide		1746–01–6 1634–02–2	U402
Tetrabutylthiuram monosulfide		97-74-5	U401
1,2,4,5-Tetrachlorobenzene		95–94–3	U207
Tetrachlorodibenzo-p-dioxins			
Tetrachlorodibenzofurans			
Tetrachloroethane, N.O.S. ¹		25322-20-7	
1,1,1,2-Tetrachloroethane		630–20–6	U208
1,1,2,2-Tetrachloroethane		79–34–5	U209
Tetrachloroethylene		127–18–4 58–90–2	U210 See F027
2,3,4,6-tetrachlorophenol, potassium salt	same	53535276	None
2,3,4,6-tetrachlorophenol, sodium salt		25567559	None
Tetraethyldithiopyrophosphate	Thiodiphosphoric acid, tetraethyl ester	3689–24–5	P109
Tetraethyl lead	Plumbane, tetraethyl	78-00-2	P110
Tetraethyl pyrophosphate		107-49-3	P111
Tetranitromethane		509–14–8	P112
Thallium	Same	7440–28–0	
Thallium compounds, N.O.S. ¹ Thallic oxide		1314–32–5	P113
Thallium(I) acetate	Acetic acid, thallium(1+) salt	563-68-8	U214
Thallium(I) carbonate		6533–73–9	U215
Thallium(I) chloride	Thallium chloride TICI	7791-12-0	U216
Thallium(I) nitrate		10102-45-1	U217
Thallium selenite		12039–52–0	P114
Thallium(I) sulfate		7446–18–6	P115
Thioacetamide Thiodicarb		62–55–5 59669–26–0	U218 U410
Tillouicaro	[(methylimino) carbonyloxy]] bis-, dimethyl ester.	39009-20-0	0410
Thiofanox	[(methylamino)carbonyl] oxime.	39196–18–4	P045
Thiomethanol	1	74–93–1	U153
Thiophanate-methyl	(iminocarbonothioyl)] bis-, dimethyl ester.	23564-05-8 108-98-5	U409 P014
Thiophenol Thiosemicarbazide		79–19–6	P014 P116
Thiourea		62-56-6	U219
Thiram		137-26-8	U244
Tirpate	methyl-, O-[(methylamino) carbonyl] oxime.	26419–73–8	P185
Toluene	Benzene, methyl-	108-88-3	U220
Toluenediamine Toluene-2,4-diamine	Benzenediamine, ar-methyl	25376–45–8 95–80–7	U221
Toluene-2,6-diamine	1.3-Benzenediamine, 4-metryl-	823-40-5	
Toluene-3,4-diamine	1,2-Benzenediamine, 4-methyl-	496-72-0	
Toluene diisocyanate	Benzene, 1,3-diisocyanatomethyl	26471–62–5	U223
roluene diisocyanate	Benzenamine, 2-methyl	95-53-4	U328
o-Toluidine		COC 04 E	11222
o-Toluidineo-Toluidine hydrochloride	Benzenamine, 2-methyl-, hydrochloride	636–21–5	U222
o-Toluidineo-Toluidine hydrochloride	Benzenamine, 4-methyl-	106-49-0	U353
o-Toluidineo-Toluidine hydrochloride	Benzenamine, 4-methyl-		

Common name	Chemical abstracts name	Chemical ab- stracts No.	Hazardous waste No.
1,2,4-Trichlorobenzene	Benzene, 1,2,4-trichloro-	120-82-1	
1,1,2-Trichloroethane	Ethane, 1,1,2-trichloro	79-00-5	U227
Trichloroethylene	Ethene, trichloro-	79-01-6	U228
Trichloromethanethiol	Methanethiol, trichloro-	75-70-7	P118
Trichloromonofluoromethane	Methane, trichlorofluoro-	75-69-4	U121
2,4,5-Trichlorophenol	Phenol, 2,4,5-trichloro-	95-95-4	See F027
2,4,6-Trichlorophenol	Phenol, 2,4,6-trichloro-	88-06-2	See F027
2,4,5-T	Acetic acid, (2,4,5-trichlorophenoxy)	93-76-5	See F027
Trichloropropane, N.O.S.1		25735-29-9	
1,2,3-Trichloropropane	Propane, 1,2,3-trichloro-	96-18-4	
Triethylamine	Ethanamine, N,N-diethyl	121-44-8	U404
O,O,O-Triethyl phosphorothioate	Phosphorothioic acid, O,O,O-triethyl ester	126-68-1	
1,3,5-Trinitrobenzene	Benzene, 1,3,5-trinitro-	99-35-4	U234
Tris(1-aziridinyl)phosphine sulfide	Aziridine, 1,1',1"-phosphinothioylidynetris	52-24-4	
Tris(2,3-dibromopropyl) phosphate	1-Propanol, 2,3-dibromo-, phosphate (3:1)	126-72-7	U235
Trypan blue	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-	72-57-1	U236
The ell acceptant	dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]-bis[5-amino-4-hydroxy-, tetrasodium salt.	00.75.4	
Uracil mustard	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]	66–75–1	U237
Vanadium pentoxide	Vanadium oxide V ₂ O ₅	1314–62–1	P120
Vernolate	Carbamothioc acid, dipropyl-, S-propyl ester	1929–77–7	U385
Vinyl chloride	Ethene, chloro-	75–01–4	U043
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo- 1-phenylbutyl)-, when present at con- centrations less than 0.3%.	81–81–2	U248
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo- 1-phenylbutyl)-, when present at con- centrations greater than 0.3%.	81–81–2	P001
Warfarin salts, when present at concentrations less than 0.3%.			U248
Warfarin salts, when present at concentrations greater than 0.3%.			P001
Zinc cyanide	Zinc cyanide Zn(CN) ₂	557-21-1	P121
Zinc phosphide	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10%.	1314–84–7	P122
Zinc phosphide	Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less.	1314–84–7	U249
Ziram	ZInc, bis(dimethylcarbamodithioato-S,S')-, (T–4)	137–30–4	P205

¹ The abbreviation N.O.S. (not otherwise specified) signifies those members of the general class not specifically listed by name in this appendix.

^{[53} FR 13388, Apr. 22, 1988, as amended at 53 FR 43881, Oct. 31, 1988; 54 FR 50978, Dec. 11, 1989; 55 FR 50483, Dec. 6, 1990; 56 FR 7568, Feb. 25, 1991; 59 FR 468, Jan. 4, 1994; 59 FR 31551, June 20, 1994; 60 FR 7853, Feb. 9, 1995; 60 FR 19165, Apr. 17, 1995]

Appendix IX to Part 261—Wastes Excluded Under $\S 260.20$ and 260.22

TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES

Facility	Address	Waste description
Ampex Record- ing Media Corporation.	Opelika, Alabama.	Solvent recovery residues in the powder or pellet form (EPA Hazardous Waste Nos. F003 and F005) generated from the recovery of spent solvents from the manufacture of tape recording media (generated at a maximum annual rate of 1,000 cubic yards in the powder or pellet form) after August 9, 1993. In order to confirm that the characteristics of the wastes do not change significantly, the facility must, on an annual basis, analyze a representative composite sample of the waste (in its final form) for the constituents listed in 40 CFR 261.24 using the method specified therein. The annual analytical results, including quality control information, must be compiled, certified according to 40 CFR 260.22(i)(12), maintained on-site for a minimum of five years, and made available for inspection upon request by any employee or representative of EPA or the State of Alabama. Failure to maintain the required records on-site will be considered by EPA, at its discretion, sufficient basis to revoke the exclusion to the extent directed by EPA.
Aptus, Inc	Coffeyville, Kansas.	Viole the excision to the exert indirector by EPA. Kilin residue and spray dryer/baghouse residue (EPA Hazardous Waste No. F027) generated during the treatment of cancelled pesticides containing 2.4,5—T and Silvex and related materials by Aptus' incinerator at Coffeyville, Kansas after December 27, 1991, so long as: (1) The incinerator is monitored continuously and is in compliance with operating permit conditions. Should the incinerator fail to comply with the permit conditions relevant to the mechanical operation of the incinerator, Aptus must test the residues generated during the run when the failure occurred according to the requirements of Conditions (2) through (4), regardless of whether or not the demonstration in Condition (5) has been made. (2) A minimum of four grab samples must be taken from each hopper (or other container) of kiln residue generated during each 24 hour run; all grabs collected during a given 24 hour run must then be composited to form one composite sample. A minimum of four grab samples must also be taken from each hopper (or other container) of spray dryer/baghouse residue generated during each 24 hour run; all grabs collected during a given 24 hour run must then be composited to form one composite sample. Prior to the disposal of the residues from each 24 hour run, a TCLP leachate test must be performed on these composite samples and the leachate analyzed for the TC toxic metals, nickel, and cyanide. If arsenic, chromium, lead or silver TC leachate test results exceed 1.6 ppm, barium levels exceed 32 ppm, cadmium or selenium levels exceed 0.3 ppm, mercury levels exceed 0.07 ppm, nickel levels exceed 0.10 ppm, or cyanide levels exceed 0.5 ppm, barium levels 0.07 ppm, collice levels exceed 0.07 ppm, percury levels exceed 0.07 ppm, collice levels exceed 0.07 ppm, percury levels exceed 0.07 pp

TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued

Facility	Address	Waste description
Arco Building Products. Arco Chemical Co. Arkansas Department of Pollution Control and Ecology.		(4) Aptus must generate, prior to disposal of residues, verification data from each 24 hour run for each treatment residue (i.e., kiln residue, spray dryer/baghouse residue) to demonstrate that the residues do not contain tetra-, penta-, or hexachlorodibenzo-p-dioxins or furans at levels of regulatory concern. Samples must be collected as specified in Condition (2). The TCDD equivalent levels for the solid residues must be less than 5 ppt. Any residues with detected dioxins or furans in excess of this level must be retreated or must be disposed of as acutely hazardous. SW-846 Method 8290, a high resolution gas chromatography and high resolution mass spectroscopy (HRGC/HRMS) analytical method must be used. For tetra- and penta-chlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 15 ppt for the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the solid residues. For the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the solid residues. For hexachlorinated dioxin and furan homologs, the maximum practical quantitation limit must not exceed 37 ppt for the belief for the Characterization and when the treatment of the cancelled pesticides and related materials is concluded. The testing requirements for Conditions (2), (3), and (4) will continue until Aptus provides the Director with
Pollution Control and	site, Jack- sonville, Ar-	D after August 24, 1990. This one-time exclusion applies only to the incineration of the waste materials described in the petition, and it is conditional upon the data obtained from ADPC&E's full-scale incineration facility. To ensure that hazardous constituents are not present in the waste at levels of regulatory concern once the full-scale treatment facility is in operation, ADPC&E must implement a testing program for the petitioned waste. This testing program must meet the following conditions for the exclusion to be valid: (1) Testing: Sample collection and analyses (including quality control (QC) procedures) must be performed according to SW–846 methodologies. (A) Initial testing: Representative grab samples must be taken from each drum and kiln ash and cyclone ash generated from each 24 hours of operation, and the grab samples composited to form one composite sample of ash for each 24-hour period. Representative grab samples must also be taken from each drum of cal-
		cium chloride salts generated from each 24 hours of operation and composited to form one composite sample of calcium chloride salts for each 24-hour period. The initial testing requirements must be fullfilled for the following wastes: (i) Incineration by-products generated prior to and during the incinerator's trial burn; (ii) incineration by-products from the treatment of 2,4–D wastes for one week (or 7 days if incineration is not on consecutive days) after completion of the trial burn; (iii) incineration by-products from the treatment of blended 2,4–D and 2,4,5–T wastes for two weeks (or 14 days if incineration is not on consecutive days) after completion of the trial burn; and (iv) incineration by-products from the treatment of blended 2,4–D and 2,4,5–T wastes for one week (or 7 days if incineration is not on consecutive days) when the percentage of 2, 4, 5–T wastes exceeds the maximum percentage treated under Condition (1)(A)(iii). Prior to disposal of the residues from each 24-hour sampling period, the daily composite must be analyzed for all the constituents listed in Condition (3). ADPC&E must report the analytical test data, including quality control information, obtained during this initial period no later than 90 days after the start of the operation. (B) Subsequent testing: Representative grab samples of each drum of kiln and cy-
		clone ash generated from each week of operation must be composited to form one composite sample of ash for each weekly period. Representative grab samples of each drum of calcium chloride salts generated from each week of operation must also be composited to form one composite sample of calcium chloride salts for each weekly period.

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TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued

Waste description
Prior to disposal of the residues from each weekly sampling period, the weekly composites must be analyzed for all of the constituents listed in Condition (3). The analytical data, including quality control information, must be compiled and maintained on site for a minimum of three years. These data must be furnished upor request and made available for inspection by any employee or representative of EPA.
(2) Waste holding: The incineration residues that are generated must be stored as haz ardous until the initial verification analyses or subsequent analyses are completed. If the composite incineration residue samples (from either Condition (1)(A) or Condition (1)(B)) do not exceed any of the delisting levels set in Condition (3), the incineration residues corresponding to these samples may be managed and disposed of in accordance with all applicable solid waste regulations.
If any composite incineration residue sample exceeds any of the delisting levels set in Condition (3), the incineration residues generated during the time period corresponding to this sample must be retreated until they meet these levels (analyses must be repeated) or managed and disposed of in accordance with subtitle C of RCRA. Incineration residues which are generated but for which analysis is not complete or valid must be managed and disposed of in accordance with subtitle C of RCRA, until valid analyses demonstrate that the wastes meet the delisting levels.
(3) Delisting levels: If concentrations in one or more of the incineration residues for any of the hazardous constituents listed below exceed their respective maximum allowable concentrations also listed below, the batch of failing waste must either be re-treated until it meets these levels or managed and disposed of in accordance with subtitle C of RCRA.
(A) Inorganics (Leachable): Arsenic, 0.32 ppm; Barium, 6.3 ppm; Cadmium, 0.06 ppm; Chromium, 0.32 ppm; Cyanide, 4.4 ppm; Lead, 0.32 ppm; Mercury, 0.01 ppm; Nickel, 4.4 ppm; Selenium, 0.06 ppm; Silver, 0.32 ppm. Metal concentrations must be measured in the waste leachate as per 40 CFR 261.24. Cyanide extractions must be conducted using distilled water.
(B) Organics: Benzene, 0.87 ppm; Benzo(a)anthracene, 0.10 ppm; Benzo(a)pyrene 0.04 ppm; Benzo (b)fluoranthene, 0.16 ppm; Chlorobenzene, 122 ppm; o-Chlorophenol, 44 ppm; Chlysene, 15 ppm; 2, 4–D, 107 ppm; DDE, 1.0 ppm: Dibenz(a,h)anthracene, 0.007 ppm; 1, 4-Dichlorobenzene, 265 ppm; 1, 1-Dichloroethylene, 1.3 ppm; trans-1,2-Dichloroethylene, 37 ppm; Dichloromethane, 0.23 ppm; 2,4-Dichlorophenol, 43 ppm; Hexachlorobenzene, 0.26 ppm; Indenc (1,2,3-cd) pyrene, 30 ppm; Polychlorinated biphenyls, 12 ppm; 2,4,5–T, 1 × 10 ⁵ ppm; 1,2,4,5-Tetrachlorobenzene, 56 ppm; Tetrachloroethylene, 3.4 ppm Trichloroethylene, 1.1 ppm; 2,4,5-Trichlorophenol, 21,000 ppm; 2,4,6-Tichlorophenol, 0.35 ppm.
(C) Chlorinated dioxins and furans: 2,3,7,8-Tetrachlorodibenzo-p-dioxin equivalents $4 > 10^{-7} \mathrm{ppm}$. The petitioned by-product must be analyzed for the tetra-, penta-, hexa-, and heptachlorodibenzo-p-dioxins, and the tetra-, penta-, hexa-, and heptachlorodibenzofurans to determine the 2, 3, 7, 8-tetra- chlorodibenzo-p-dioxin equivalent concentration. The analysis must be conducted using Method 8290, a high resolution gas chromatography/high resolution mass spectrometry method, and must achieve practical quantitation limits of 15 parts per trillion (ppt) for the tetra- and penta- homologs, and 37 ppt for the hexa- and hepta- homologs.
(4) Termination of testing: Due to the possible variability of the incinerator feeds, the testing requirements of Condition (1)(B) will continue indefinitely. (5) Data submittals: Within one week of system start-up, ADPC&E must notify the Section Chief, Variances Section (see address below) when the full-scale incineration system is on-line and waste treatment has begun. The data obtained through Condition (1)(A) must be submitted to the Section Chief, Variances Section, PSPD/OSW (OS-343), U.S. EPA, 401 M Street SW., Washington, DC 20460, within the time period specified. At the Section Chief's request, ADPC&E must submit analytical data obtained through Condition (1)(B) within the time period specified by the Section Chief. Failure to submit the required data obtained from Condition (1)(A) within the specified ime period or to maintain the required records for the time specified in Condition (1)(B) (or to submit data within the time specified by the Section Chief) will be consid-

TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued

Facility	Address	Waste description
BBC Brown Boveri, Inc. Bethlehem	Sanford, FL Lackawanna,	"Under civil and criminal penalty of law for the making or submission of false or fraudulent statements or representations (pursuant to the applicable provisions of the Federal Code, which include, but may not be limited to, 18 U.S.C. 1001 and 42 U.S.C. 6928), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the (those) identified section(s) of this document for which I cannot personally verify its (their) truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete. In the event that any of this information is determined by EPA in its sole discretion to be false, inaccurate or incomplete, and upon conveyance of this fact to the company, I recognize and agree that this exclusion of wastes will be void as if it never had effect or to the extent directed by EPA and that the company will be liable for any actions taken in contravention of the company's RCRA and CERCLA obligations premised upon the company's reliance on the void exclusion." Dewatered Wastewater treatment sludges (EPA Hazardous Waste No. F006) generated from electroplating operations after October 17, 1986. Ammonia still lime sludge (EPA Hazardous Waste No. K060) and other solid waste gen-
Steel Corporation.	New York.	erated from primary metal-making and coking operations. This is a one-time exclusion for 118,000 cubic yards of waste contained in the on-site landfill referred to as HWM–2. This exclusion was published on April 24, 1996.
Bethlehem Steel Cor- poration.	Sparrows Point, Mary- land.	Stabilized filter cake (at a maximum annual rate of 1100 cubic yards) from the treatment of wastewater treatment sludges (EPA Hazardous Waste No. F006) generated from electroplating operations after [insert date of publication in FEDERAL REGISTER]. Bethlehem Steel (BSC) must implement a testing program that meets the following conditions for the exclusion to be valid:
		son to be valid: (1) Testing: Sample collection and analyses (including quality control (QC) procedures) must be performed according to SW-846 methodologies. If EPA judges the stabilization process to be effective under the conditions used during the initial verification testing, BSC may replace the testing required in Condition (1)(A) with the testing required in Condition (1)(B). BSC must continue to test as specified in Condition (1)(A) until and unless notified by EPA in writing that testing in Condition (1)(A) may be replaced by Condition (1)(B) (to the extent directed by EPA). (A) Initial Verification Testing: During at least the first eight weeks of operation of the full-scale treatment system, BSC must collect and analyze weekly composites representative of the stabilized waste. Weekly composites must be composed of representative grab samples collected from every batch during each week of stabilization. The composite samples must be collected and analyzed, prior to the disposal of the stabilized filter cake, for all constituents listed in Condition (3). BSC must report the analytical test data, including a record of the ratios of lime kiln dust and fly ash used and quality control information, obtained during this initial period no later than 60 days after the collection of the last composite of stabilized filter cake. (B) Subsequent Verification Testing: Following written notification by EPA, BSC may substitute the testing condition in (1)(B) for (1)(A). BSC must collect and analyze at least one composite representative of the stabilized filter cake generated each month. Monthly composites must be comprised of representative samples collected from all batches that are stabilized in a one-month period. The monthly samples must be analyzed prior to the disposal of the stabilized filter cake for chromium, lead and nickel. BSC may, at its discretion, analyze composite samples more frequently to demonstrate that smaller batches of waste are non-hazardous. (C) Annual Verification Testing: In order to co
		generated until verification testing (as specified in Conditions (1)(A) and (1)(B)) is completed and valid analyses demonstrate that the delisting levels set forth in Condition (3) are met. If the levels of hazardous constituents measured in the samples of stabilized filter cake generated are below all the levels set forth in Condition (3), then the stabilized filter cake is non-hazardous and may be managed and disposed of in accordance with all applicable solid waste regulations. If hazardous constituent levels in any weekly or monthly composite sample equal or exceed any of the delisting levels set in Condition (3), the stabilized filter cake generated during the time period corresponding to this sample must be retreated until it is below these levels or managed and disposed of in accordance with Subtitle C of RCRA. (3) Delisting Levels: All concentrations must be measured in the waste leachate by the method specified in 40 CFR §261.24. The leachable concentrations for the constituents must be below the following levels (ppm): arsenic-4.8; barium—100; cadmium—0.48; chromium—5.0; lead—1.4; mercury—0.19; nickel—9.6; selenium—1.0; silver—5.0.

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TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued

Facility		STES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued
Facility	Address	Waste description
		(4) Changes in Operating Conditions: After completing the initial verification test period in Condition (1)(A), if BSC decides to significantly change the stabilization process (e.g., stabilization reagents) developed under Condition (1), then BSC must notify EPA in writing prior to instituting the change. After written approval by EPA, BSC may manage waste generated from the changed process as non-hazardous under this exclusion, provided the other conditions of this exclusion are fulfilled. (5) Data Submittals: Two weeks prior to system start-up, BSC must notify in writing the
		Section Chief, Delisting Section (see address below) when stabilization of the dewatered filter cake will begin. The data obtained through Condition (1)(A) must be submitted to the Section Chief, Delisting Section, OSW (5304), U.S. EPA, 401 M Street, SW, Washington, DC 20460 within the time period specified. The analytical data, including quality control information and records of ratios of lime kiln dust and fly ash used, must be compiled and maintained on site for a minimum of five years. These data must be furnished upon request and made available for inspection by EPA or the State of Maryland. Failure to submit the required data within the specified time period or maintain the required records on site for the specified time will be considered by the Agency, at its discretion, sufficient basis to revoke the exclusion to the extent directed by EPA. All data must be accompanied by a signed copy of the following certification statement to attest to the truth and accuracy of the data submitted: "Under civil and criminal penalty of law for the making or submission of false or fraudulent statements or representations (pursuant to the applicable provisions of the Federal Code, which include, but may not be limited to, 18 U.S.C §1001 and 42 U.S.C §6928), I certify
		that the information contained in or accompanying this document is true, accurate and complete. As to the (those) identified section(s) of this document for which I cannot personally verify its (their) truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.
		In the event that any of this information is determined by EPA in its sole discretion to be false, inaccurate or incomplete, and upon conveyance of this fact to the company, I recognize and agree that this exclusion of waste will be void as if it never had effect or to the extent directed by EPA and that the company will be liable for any actions taken in contravention of the company's RCRA and CERCLA obligations premised upon the company's reliance on the void exclusion."
Boeing Com- mercial Air- plane Co.	Auburn, Washington.	Residually contaminated soils in an inactive sludge pile containment area on March 27, 1990, previously used to store wastewater treatment sludges generated from electroplating operations (EPA Hazardous Waste No. F006).
Bommer Indus- tries Inc. Capitol Prod- ucts Corp.	Landrum, SC Harrisburg, PA	Wastewater treatment sludges (EPA Hazardous Waste No. F006) generated from their electroplating operations and contained in evaporation ponds #1 and #2 on August 12, 1987. Dewatered wastewater treatment sludges (EPA Hazardous Waste No. FO19) generated from the chemical conversion coating of aluminum after September 12, 1986.
Capitol Prod- ucts Cor- poration.	Kentland, IN	Dewatered wastewater treatment sludges (EPA Hazardous Waste No. F019) generated from the chemical conversion coating of aluminum after November 17, 1986.
Care Free Alu- minum Prod- ucts, Inc.	Charlotte, Michigan.	Wastewater treatment sludge (EPA Hazardous Waste No. F019) generated from the chemical conversion coating of aluminum (generated at a maximum annual rate of 100 cubic yards), after August 21, 1992. In order to confirm that the characteristics of the waste do not change significantly, the facility must, on an annual basis, analyze a representative composite sample for the constituents listed in §261.24 using the method specified therein. The annual analytical results, including quality control information, must be compiled, certified according to §260.22(i)(12), maintained on-site for a minimum of five years, and made available for inspection upon request by any employee or representative of EPA or the State of Michigan. Failure to maintain the required records on-site will be considered by EPA, at its discretion, sufficient basis to revoke the exclusion to the extent directed by EPA.
Chamberlian- Featherlite, Inc.	Hot Springs, AR.	Dewatered wastewater treatment sludges (EPA Hazardous Waste No. F019) generated from the chemical conversion coating of aluminum after July 16, 1986.
Cincinnati Met- ropolitan Sewer Dis- trict.	Cincinnati, OH	Sluiced bottom ash (approximately 25,000 cubic yards) contained in the South Lagoon, on September 13, 1985 which contains EPA Hazardous Waste Nos. F001, F002, F003, F004, and F005.
Clay Equip- ment Cor- poration.	Cedar Falls, lowa.	Dewatered wastewater treatment sludges (EPA Hazardous Waste No. F006) and spent cyanide bath solutions (EPA Hazardous Waste No. F009) generated from electroplating operations and disposed of in an on-site surface impoundment. This is a onetime exclusion. This exclusion was published on August 1, 1989.
Continental Can Co. Dover Corp., Norris Div.	Olympia, WA Tulsa, OK	Dewatered wastewater treatment sludges (DPA Hazardous Waste No. FO19) generated from the chemical conversion coating of aluminum after September 12, 1986. Dewatered wastewater treatment sludge (EPA Hazardous Waste No. FO06) generated from their electroplating operations after April 29, 1986.

TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued

Facility	Address	Waste description
Eli Lilly and Company.	Clinton, Indi- ana.	Incinerator scrubber liquids, entering and contained in their onsite surface impoundment, and solids settling from these liquids originating from the burning of spent solvents (EPA Hazardous Waste Nos. F002, F003, and F005) contained in their onsite surface impoundment and solids retention area on August 18, 1988 and any new incinerator scubber liquids and settled solids generated in the surface impoundment and and disposed of in the retention are after August 12, 1988.
Envirite Corporation.	Canton, Ohio; Harvey, Illi- nois; York, Pennsylva- nia.	Dewatered wastewater sludges (EPA Hazardous Waste No. F006) generated from electroplating operations; spent cyanide plating solutions (EPA Hazardous Waste No. F007) generated from electroplating operations; plating bath residues from the bottom of plating baths (EPA Hazardous Waste No. F008) generated from electroplating operations where cyanides are used in the process; spent stripping and cleaning bath solutions (EPA Hazardous Waste No. F009) generated from electroplating operations where cyanides are used in the process; spent cyanide solutions from salt bath pot cleaning (EPA Hazardous Waste No. F011) generated from metal heat treating operations; quenching wastewater treatment sludges (EPA Hazardous Waste No. F012) generated from metal heat treating where cyanides are used in the process; wastewater treatment sludges (EPA Hazardous Waste No. F019) generated from the chemical conversion coating of aluminum after November 14, 1986. To ensure that hazardous constituents are not present in the waste at levels of regulatory concern, the facility must implement a contingency testing program for the petitioned waste. This testing program must meet the following conditions for the exclusion to be valid: (1) Each batch of treatment residue must be representatively sampled and tested using the EP Toxicity test for arsenic, barium, cadmium, chromium, lead, selenium, silver, mercury, and nickel. If the extract concentrations for chromium, lead, selenium, silver, mercury, and nickel. If the extract concentrations for chromium, lead, selenium, silver, mercury, and nickel. If the extract concentrations for chromium, lead, arsenic, and silver exceed 0.315 ppm; barium levels exceed 6.3 ppm; cadmium and selenium exceed 0.063 ppm; mercury exceeds 0.0126 ppm; or nickel levels exceed 2.205 ppm; the waste must be retreated or managed and disposed as a hazardous waste under 40 CFR Parts 262 to 265 and the permitting standards of 40 CFR Part 270. (2) Each batch of treatment residue must be tested for reactive and leachable cyan
		managed and disposed as a hazardous waste under 40 CFR Parts 262 to 265 and the permitting standards of 40 CFR Part 270. (3) Each batch of waste must be tested for the total content of specific organic toxicants. If the total content of anthracene exceeds 76.8 ppm, 1,2-diphenyl hydrazine exceeds 0.001 ppm, methylene chloride exceeds 8.18 ppm, methyl ethyl ketone exceeds 3.26 ppm, nitrosodiphenylamine exceeds 11.9 ppm, phenol exceeds 1,566 ppm, tetrachloroethylene exceeds 0.188 ppm, or trichloroethylene exceeds 0.592 ppm, the waste must be managed and disposed as a hazardous waste under 40 CFR Parts 262 to 265 and the permitting standards of 40 CFR Part 270. (4) A grab sample must be collected from each batch to form one monthly composite sample which must be tested using GC/MS analysis for the compounds listed in #3 above as well as the remaining organics on the priority pollutant list. (See 47 FR 52039, November 19, 1982, for a list of the priority pollutants.)
		(5) The data from conditions 1–4 must be kept on file at the facility for inspection purposes and must be compiled, summarized, and submitted to the Administrator by certified mail semi-annually. The Agency will review this information and if needed will propose to modify or withdraw the exclusion. The organics testing described in conditions 3 and 4 above are not required until six months from the date of promulgation. The Agency's decision to conditionally exclude the treatment residue generated from the wastewater treatment systems at these facilities applies only to the wastewater and solids treatment systems as they presently exist as described in the delisting petition. The exclusion does not apply to the proposed process additions described in the petition as recovery including crystallization, electrolytic metals recovery, evaporative recovery, and ion exchange.
EPA's Mobile Incineration System.	Denney Farm Site; McDowell, MO.	Process wastewater, rotary kiln ash, CHEAF media, and other solids (except spent activated carbon) (EPA Hazardous Waste Nos. F020, F022, F023, F026, F027, and F028) generated during the field demonstration of EPA's Mobile Incinerator at the Denney Farm Site in McDowell, Missouri, after July 25, 1985, so long as: (1) The incinerator is functioning properly; (2) a grab sample is taken from each tank of wastewater generated and the EP leachate values do not exceed 0.03 ppm for mercury, 0.14 ppm for selenium, and 0.68 ppm for chromium; and (3) a grab sample is taken from each drum of soil or ash generated and a core sample is collected from each CHEAF roll generated and the EP leachate values of daily composites do not exceed 0.044 ppm in ash or CHEAF media for mercury or 0.22 ppm in ash or CHEAF media for selenium.
Falconer Glass Indust., Inc. Florida Produc- tion Engi- neering Company.	Falconer, NY Daytona Beach, Florida.	Wastewater treatment sludges from the filter press and magnetic drum separator (EPA Hazardous Waste No. F006) generated from electroplating operations after July 16, 1986. This is a one-time exclusion. Wastewater treatment sludges (EPA Hazardous Waste No. F006) generated from electroplating operations and contained in four on-site trenches on January 23, 1987.

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TABLE 1—WASTES EXCLUDED FROM NON-SPECIFIC SOURCES—Continued

Facility	Address	Waste description
General Electric Company. General Motors Corp., Fisher Body Division.	Shreveport Louisiana. Elyria, OH	Wastewater treatment sludges (EPA Hazardous Waste No. F006) generated from electroplating operations and contained in four on-site treatment ponds on August 12, 1987. The residue generated from the use of the Chernfix® treatment process on sludge (EPA Hazardous Waste No. F006) generated from electroplating operations and contained in three on-site surface impoundments on November 14, 1986. To assure that stabilization occurs, the following conditions apply to this exclusion: (1) Mixing ratios shall be monitored continuously to assure consistent treatment. (2) One grab sample of the treated waste shall be taken each hour as it is pumped to the holding area (cell) from each trailer unit. At the end of each production day, the grab samples from the individual trailer units will be composited and the EP toxicity test will be run on each composite sample. If lead or total chromium concentrations exceed 0.315 ppm or if nickel exceeds 2.17 ppm, in the EP extract, the waste will be removed and retreated or disposed of as a hazardous waste. (3) The treated waste shall be pumped into bermed cells which are constructed to assure that the treated waste is identifiable and retrievable (i.e., the material can be removed and either disposed of as a hazardous waste or retreated if conditions 1 or 2 are not met).
Geological Reclamation Operations and Sys- tems, Inc.	Morrisville, PA	Failure to satisfy any of these conditions would render the exclusion void. This is a one-time exclusion, applicable only to the residue generated from the use of the Chemfix® treatment process on the sludge currently contained in the three on-site surface impoundments. Wastewater treatment sludge filter cake from the treatment of EPA Hazardous Waste No. F039, generated at a maximum annual rate of 1,000 cubic yards. This exclusion was published on August 20, 1991. This exclusion covers the filter cake resulting from the treatment of hazardous leachate derived from only "old" GROWS and non-hazardous leachate derived from only non-hazardous sources. This exclusion does not address the wastes disposed of in the "old" GROWS Landfill or the grit generated during the removal of heavy solids from the landfill leachate. To ensure that hazardous constituents are not present in the filter cake at levels of regulatory concern, GROWS must implement a testing program for the petitioned waste. This testing program must meet the conditions listed below in order for the exclusion to be valid: (1) Testing: Sample collection and analyses, including quality control (QC) procedures, must be performed according to SW–846 methodologies. (A) Sample Collection: Each batch of waste generated over a four-week period must be collected in containers with a maximum capacity of 20-cubic yards. At the end of the four-week period, each container must be divided into four quadrants and a single, full-depth core sample shall be collected from each quadrant. All of the full-depth core samples then must be composited under laboratory conditions to produce one representative composite sample for the four-week period. (B) Sample Analysis: Each four-week composite sample must be analyzed for all of the constituents listed in Condition (3). The analytical data, including quality control information, must be compiled and maintained on site for a minimum of three years. These data must be furnished upon request by any employee or representative of
		(2) Waste Holding: The dewatered filter cake waste must be stored as hazardous until the verification analyses are completed. If the four-week composite sample does not exceed any of the delisting levels set in Condition (3), the filter cake waste corresponding to this sample may be managed and disposed of in accordance with all applicable solid waste regulations. If the four-week composite sample exceeds any of the delisting levels set in Condition (3), the filter cake waste generated during the time period corresponding to the four-week composite sample must be retreated until it meets these levels (analyses must be repeated) or managed and disposed of in accordance with subtitle C of RCRA. Filter cake waste which is generated but for which analyses are not complete or valid must be managed and disposed of in accordance with subtitle C of RCRA, until valid analyses demonstrate that the waste meets the delisting levels. (3) Delisting Levels: If the concentrations in the four-week composite sample of the filter cake waste for any of the hazardous constituents listed below exceed their respective maximum allowable concentrations (ppm) also listed below, the four-week batch of failing filter cake waste must either be retreated until it meets these levels or managed and disposed of in accordance with subtitle C of RCRA. (A) Inorganics (Leachable): Arsenic—0.79 Barium—15.9 Cadmium—0.16 Chromium—0.79 Cyanide—11.1 Lead—0.79 Mercury—0.032 Selenium—0.16 Silver—0.79 Nickel—11.1